

FIG.1

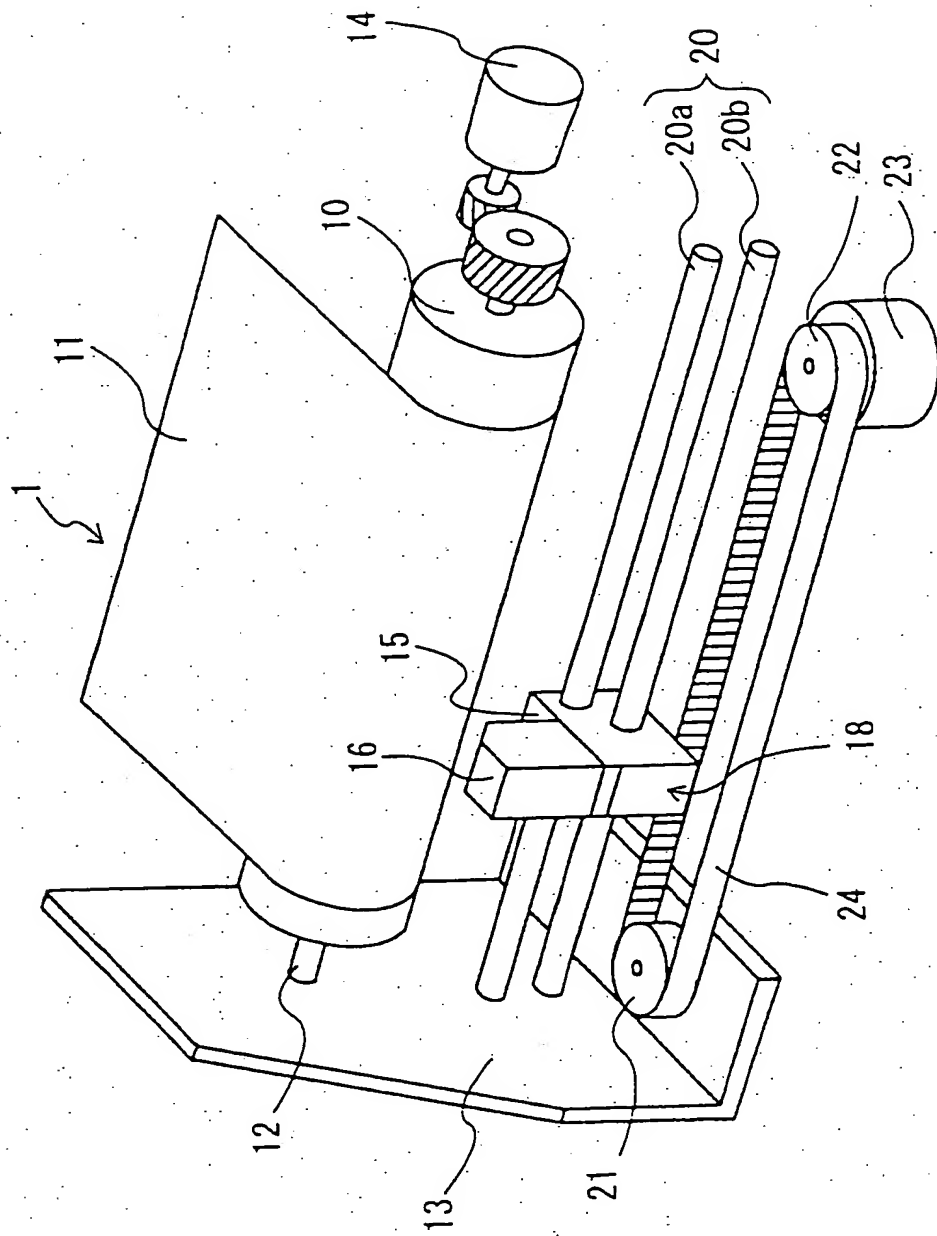


FIG. 2

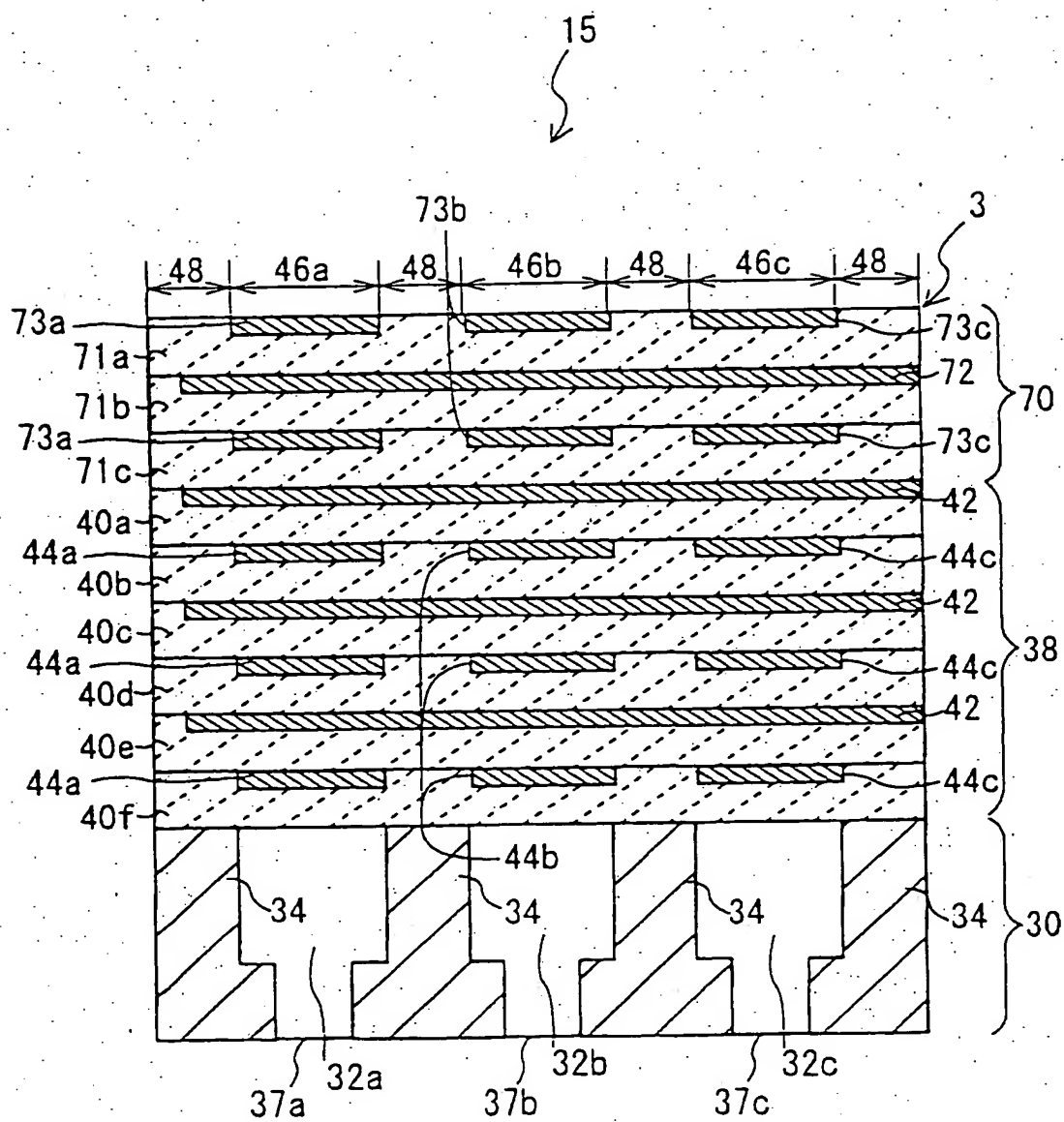
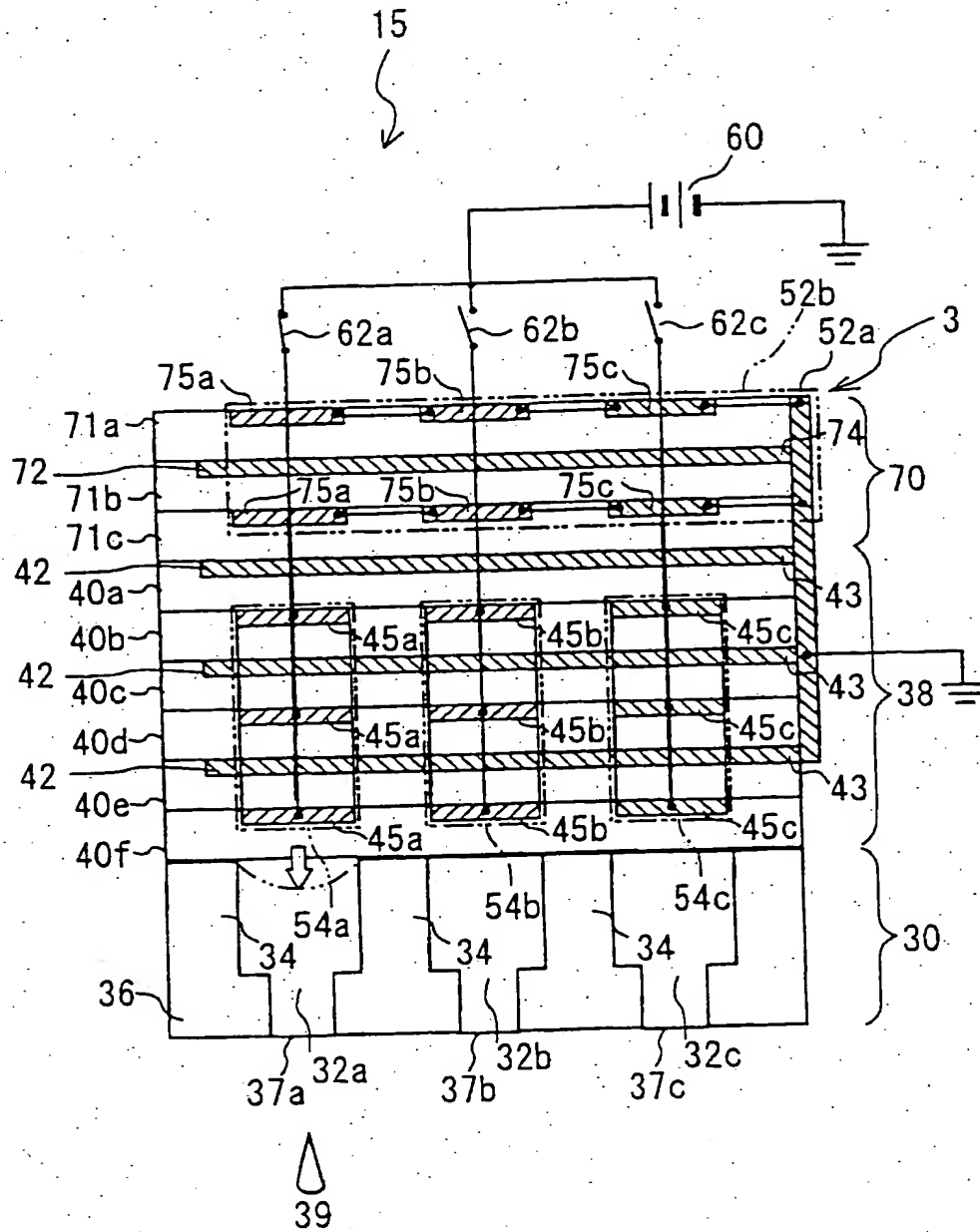
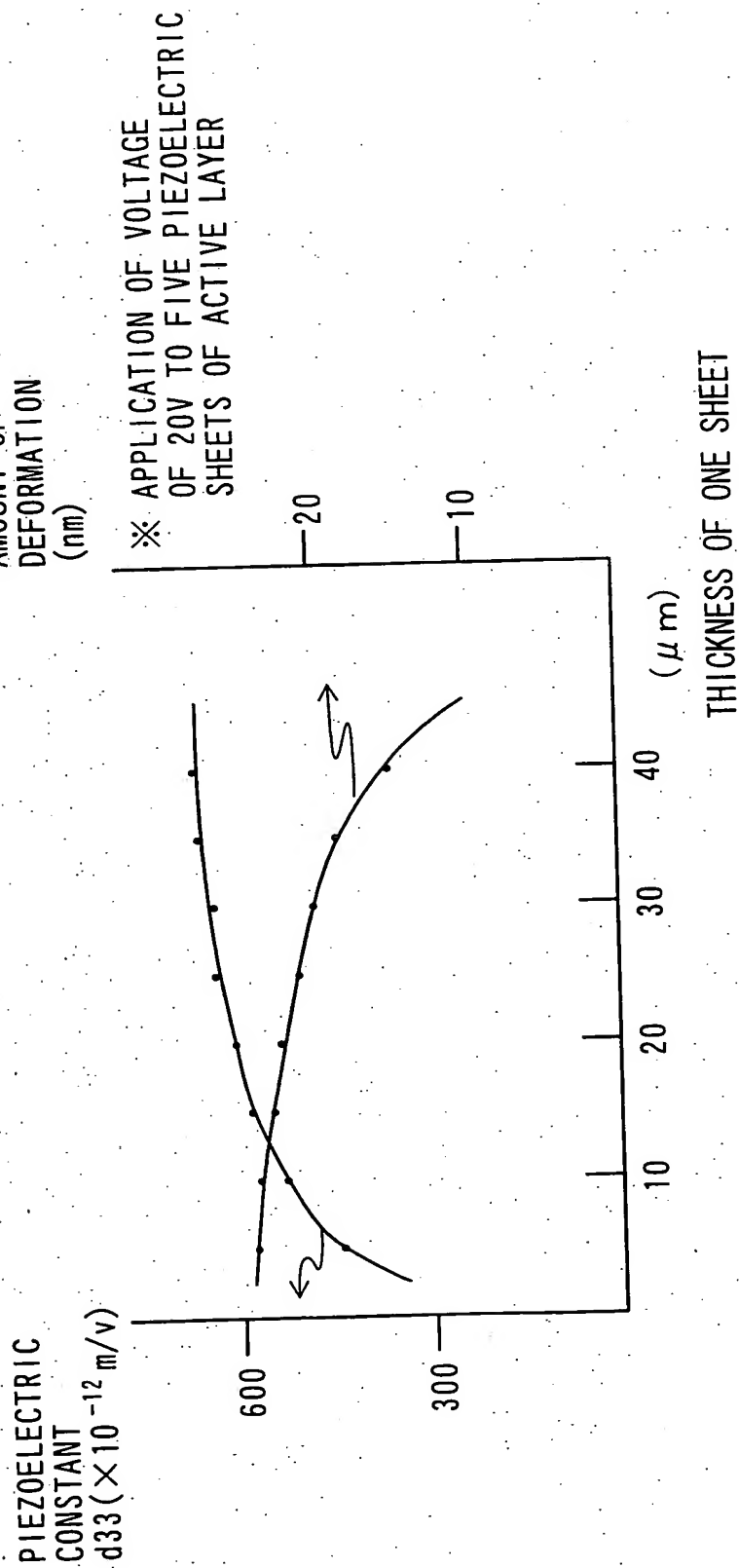


FIG. 3

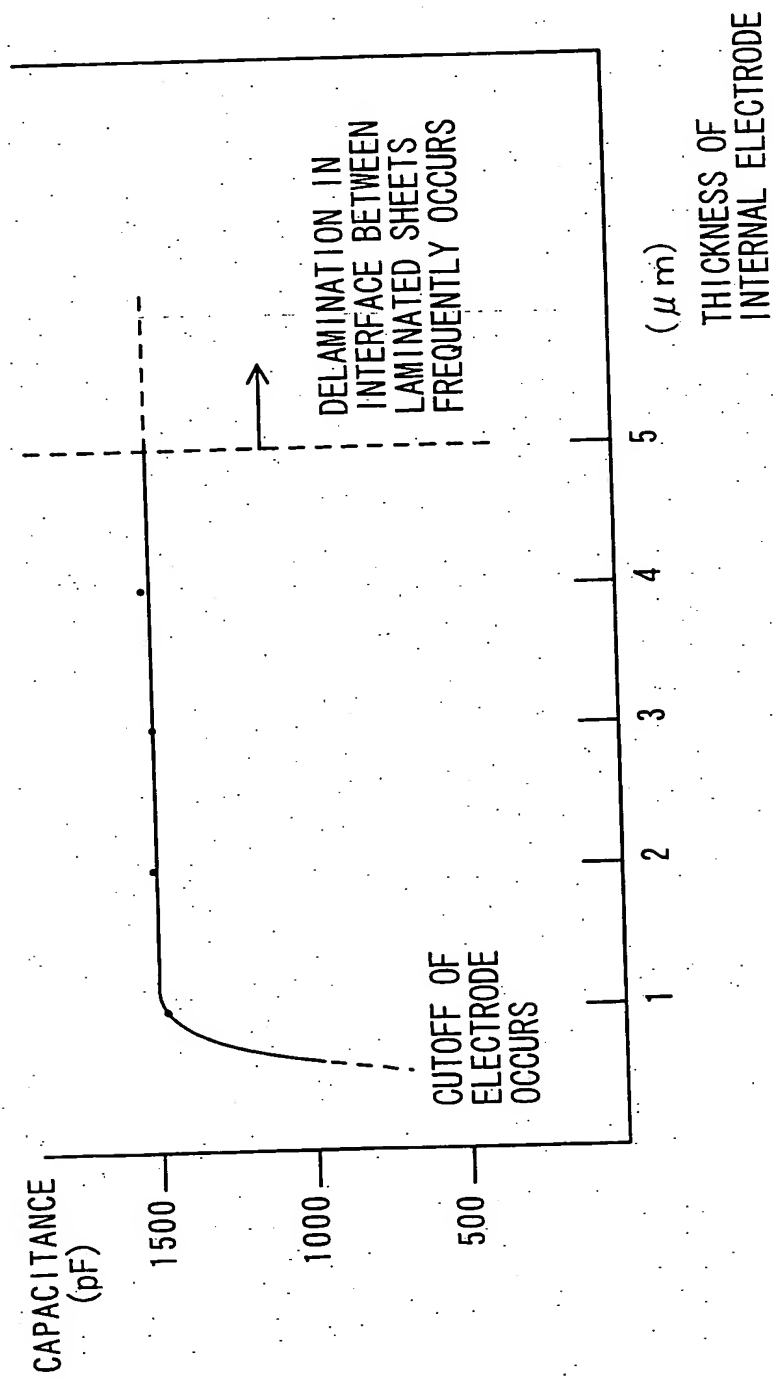


# FIG.4



THICKNESS OF ONE PIEZOELECTRIC SHEET AND CHARACTERISTICS

FIG.5



THICKNESS OF INTERNAL ELECTRODE AND CAPACITANCE

FIG. 6

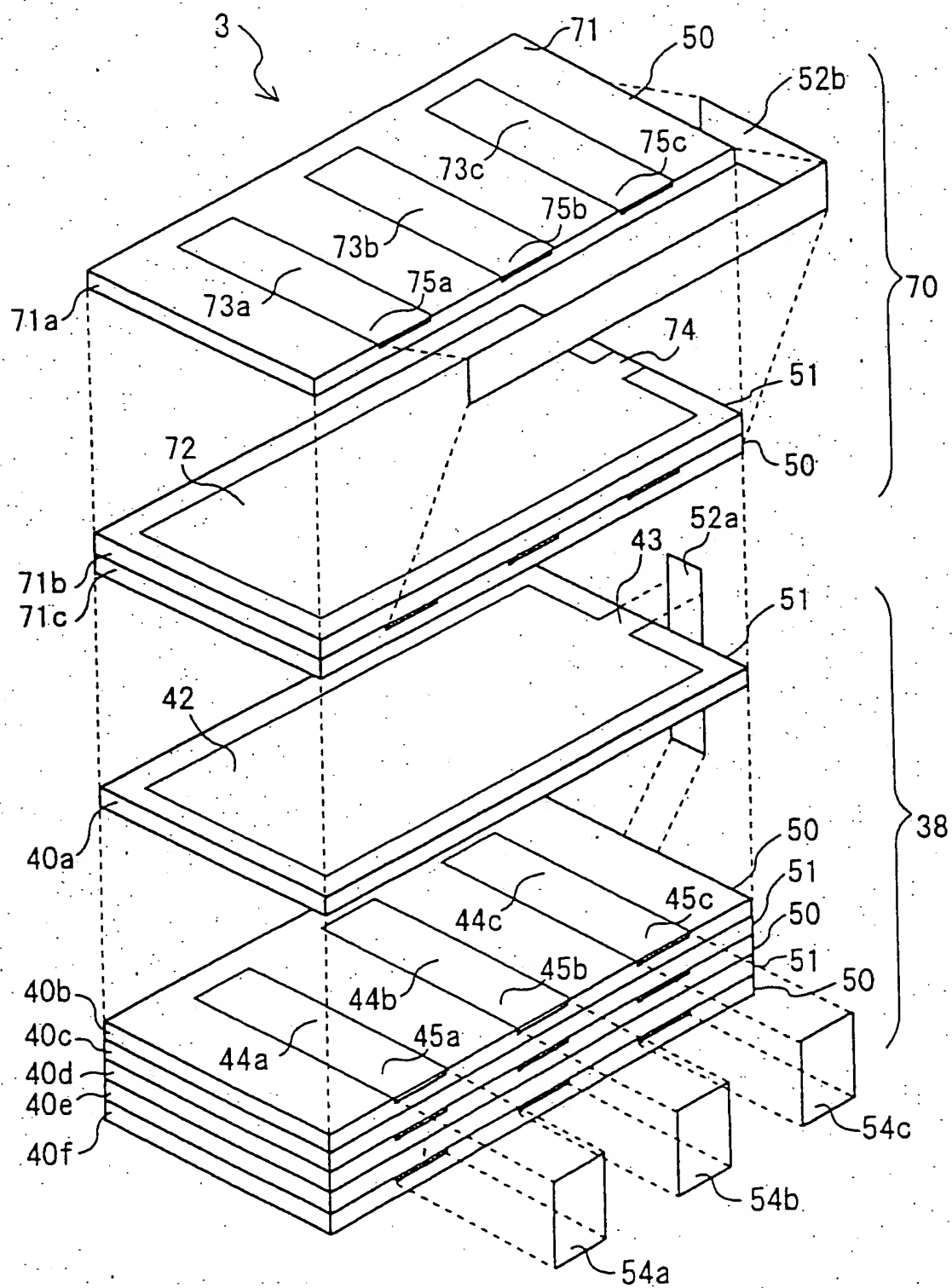


FIG. 7

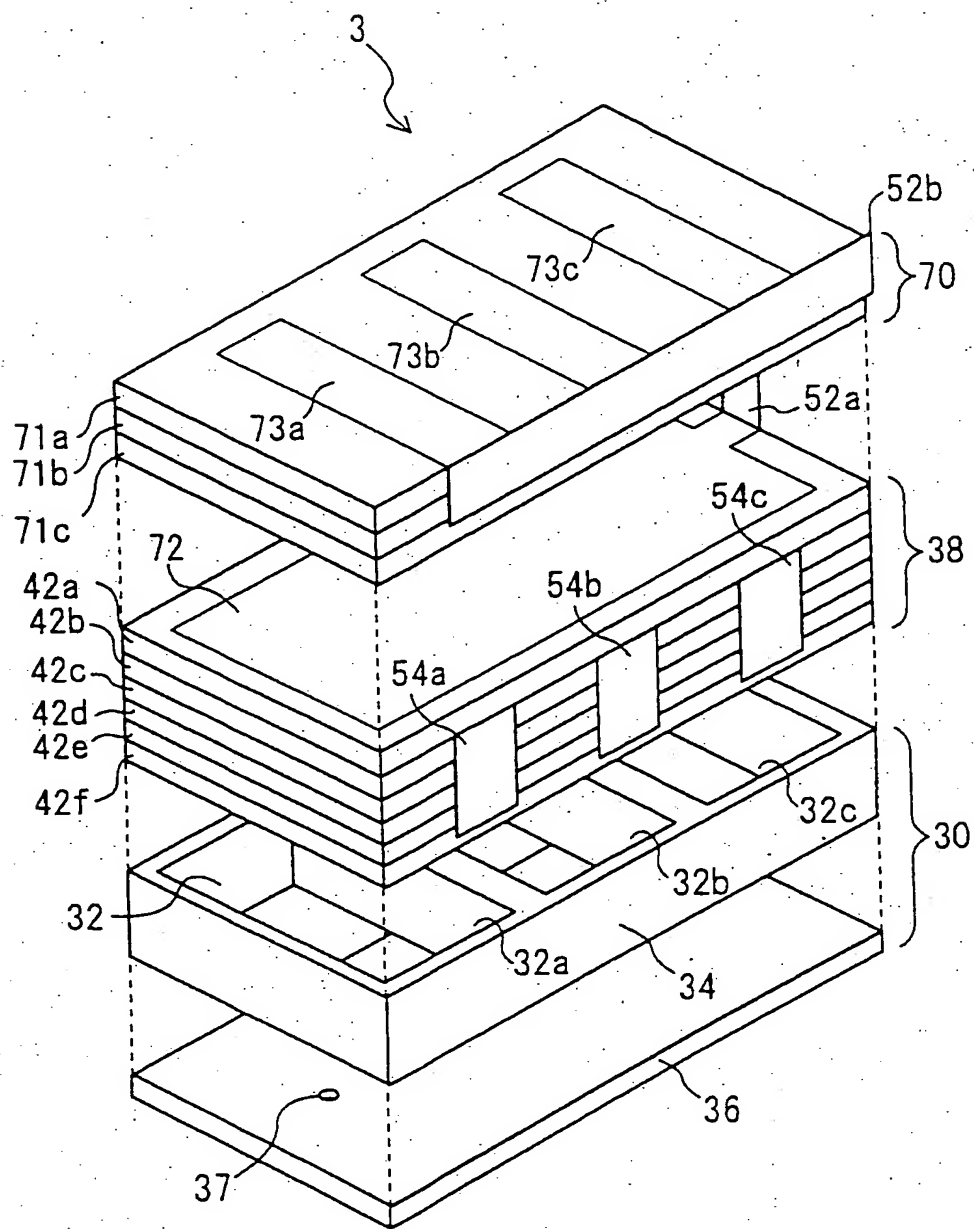


FIG. 8

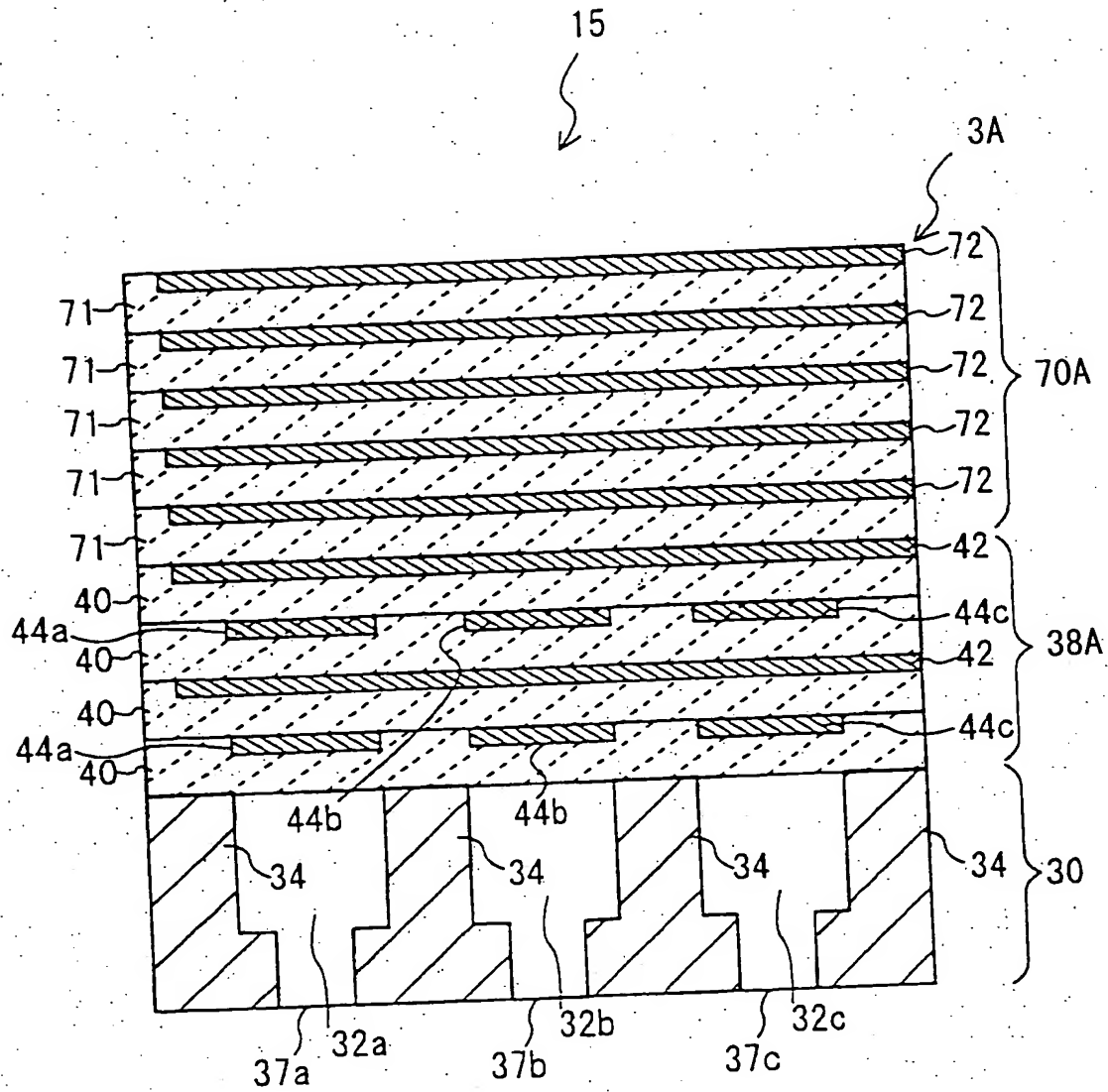




FIG. 9

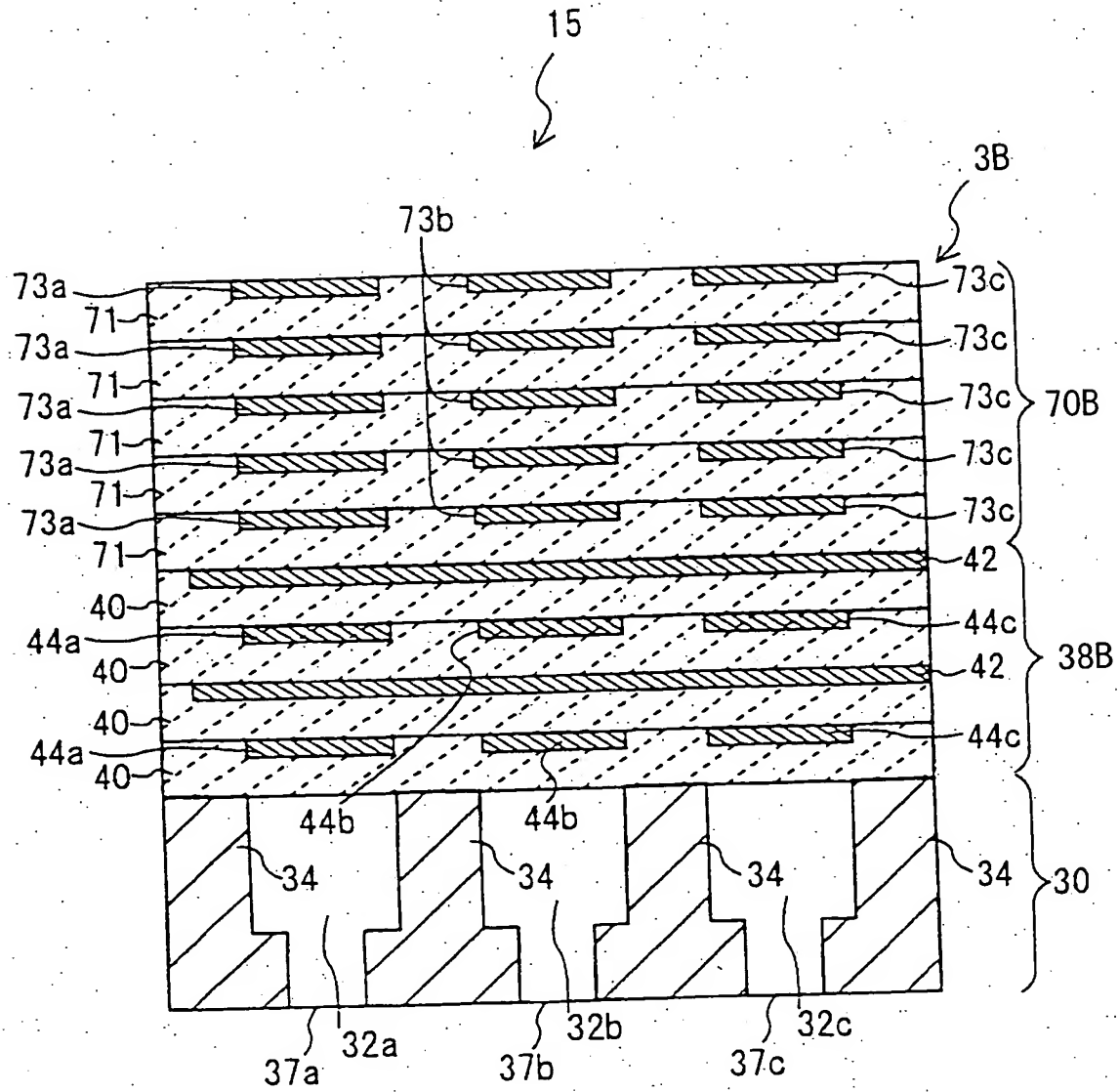


FIG. 10

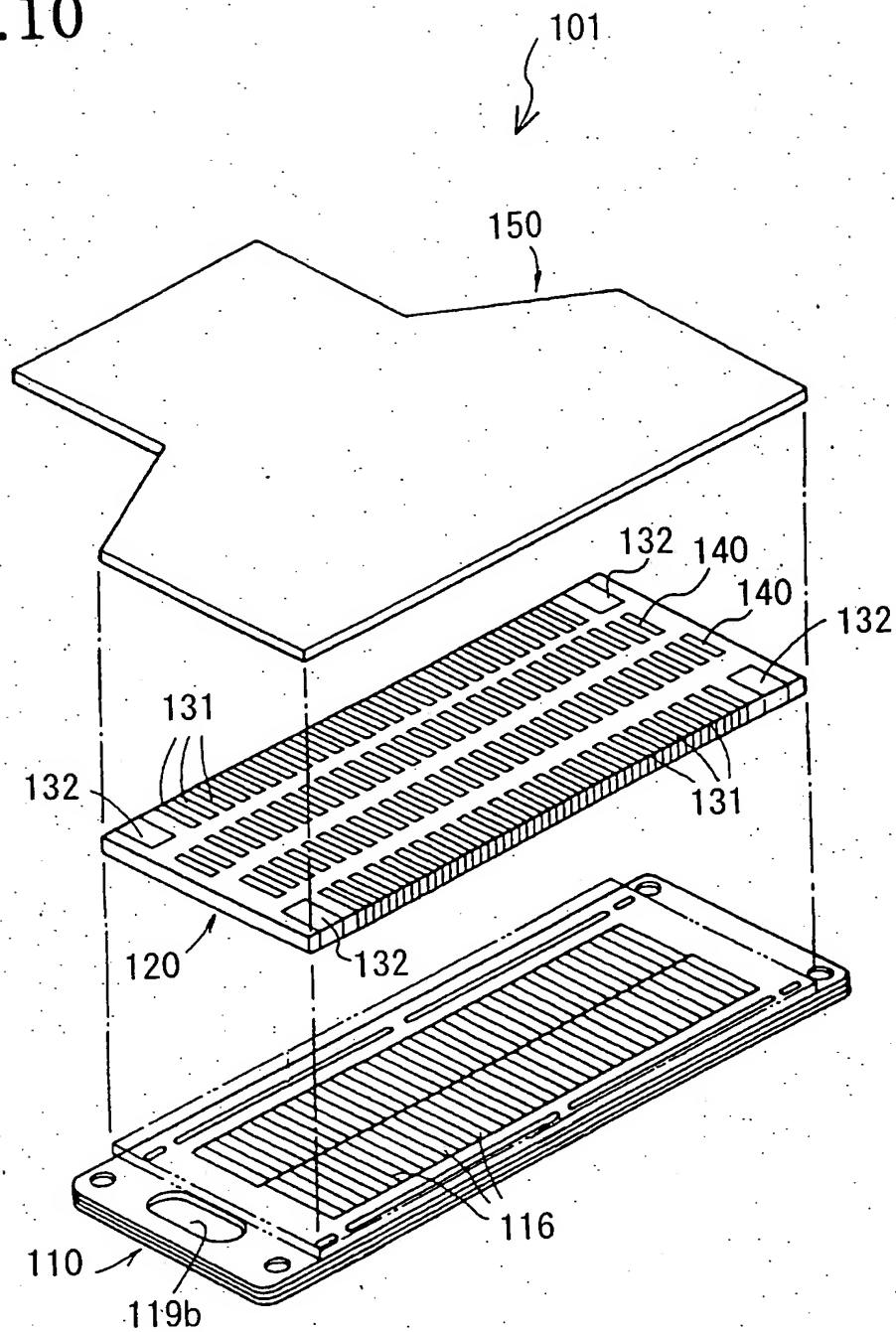


FIG.11

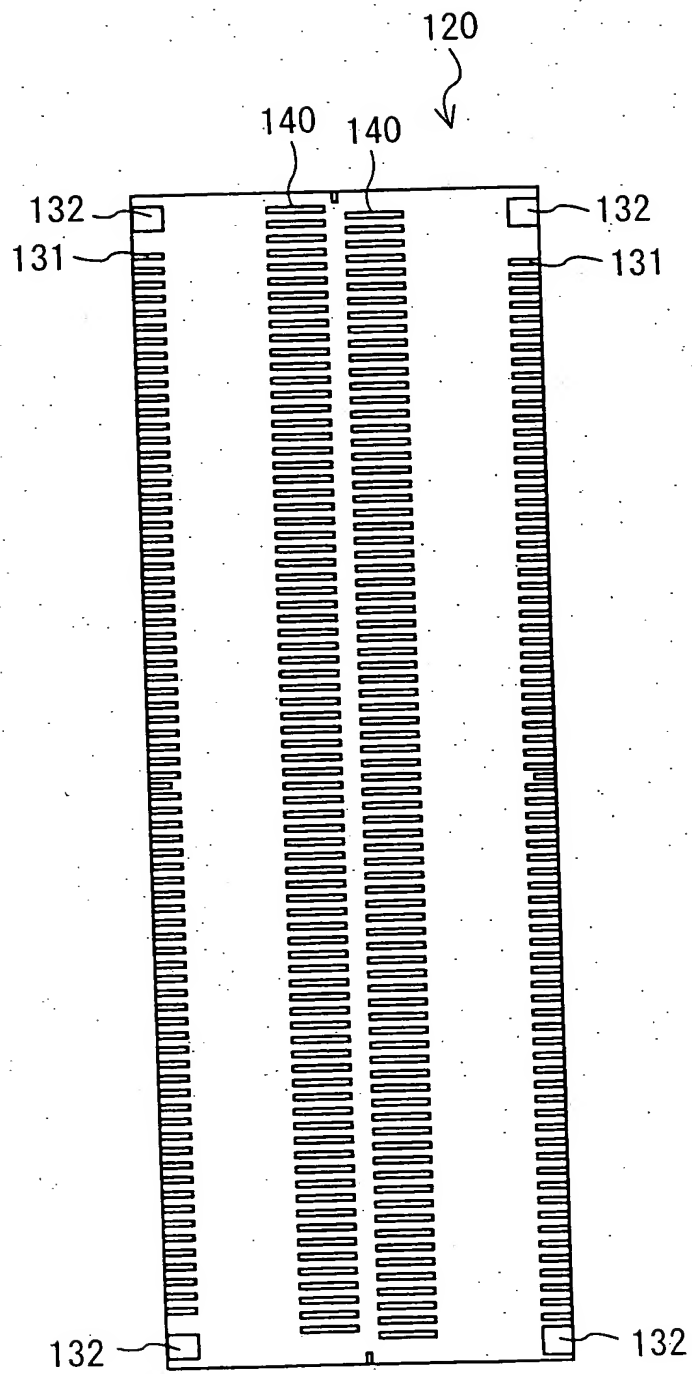


FIG.12

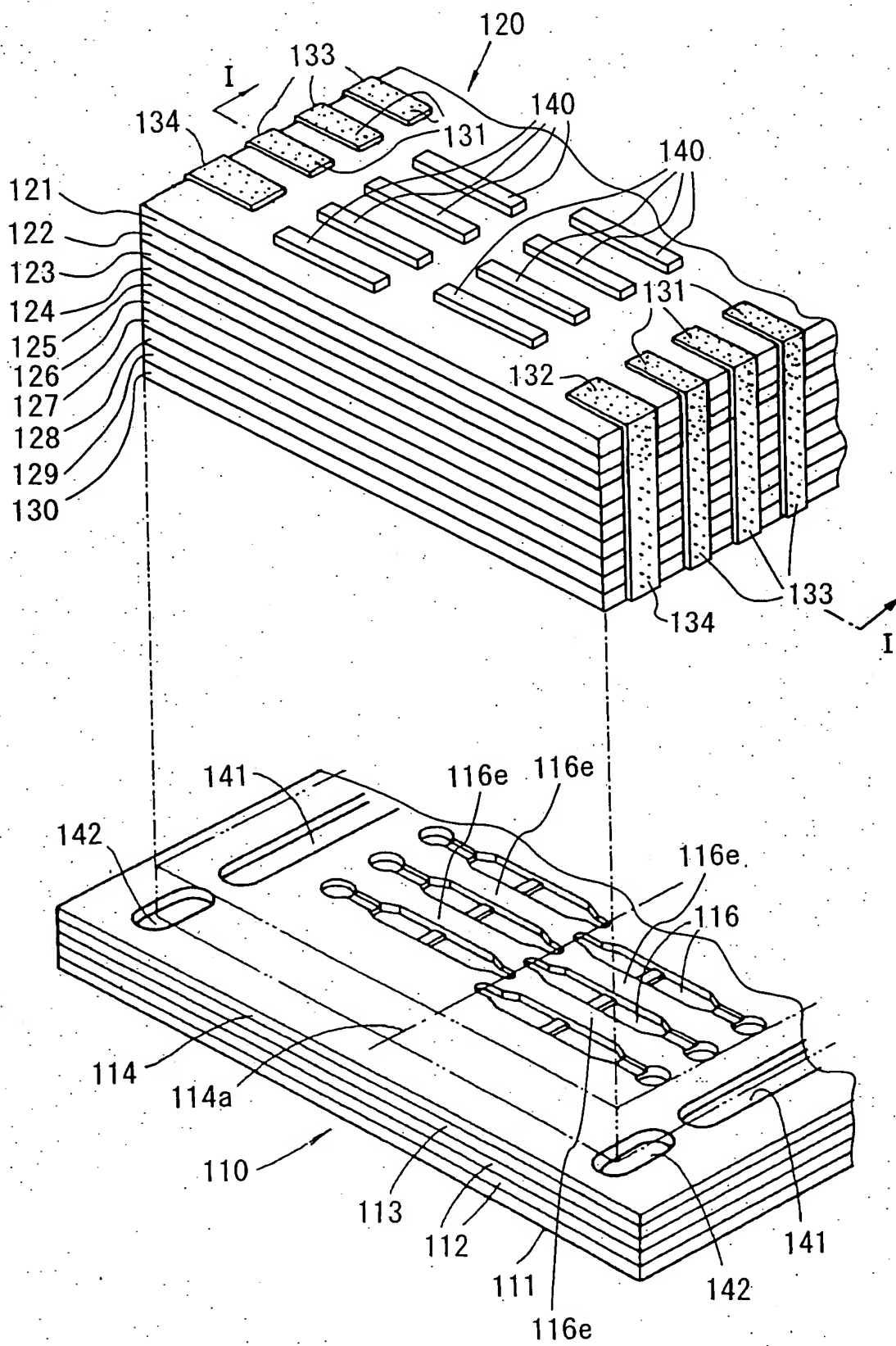


FIG. 13

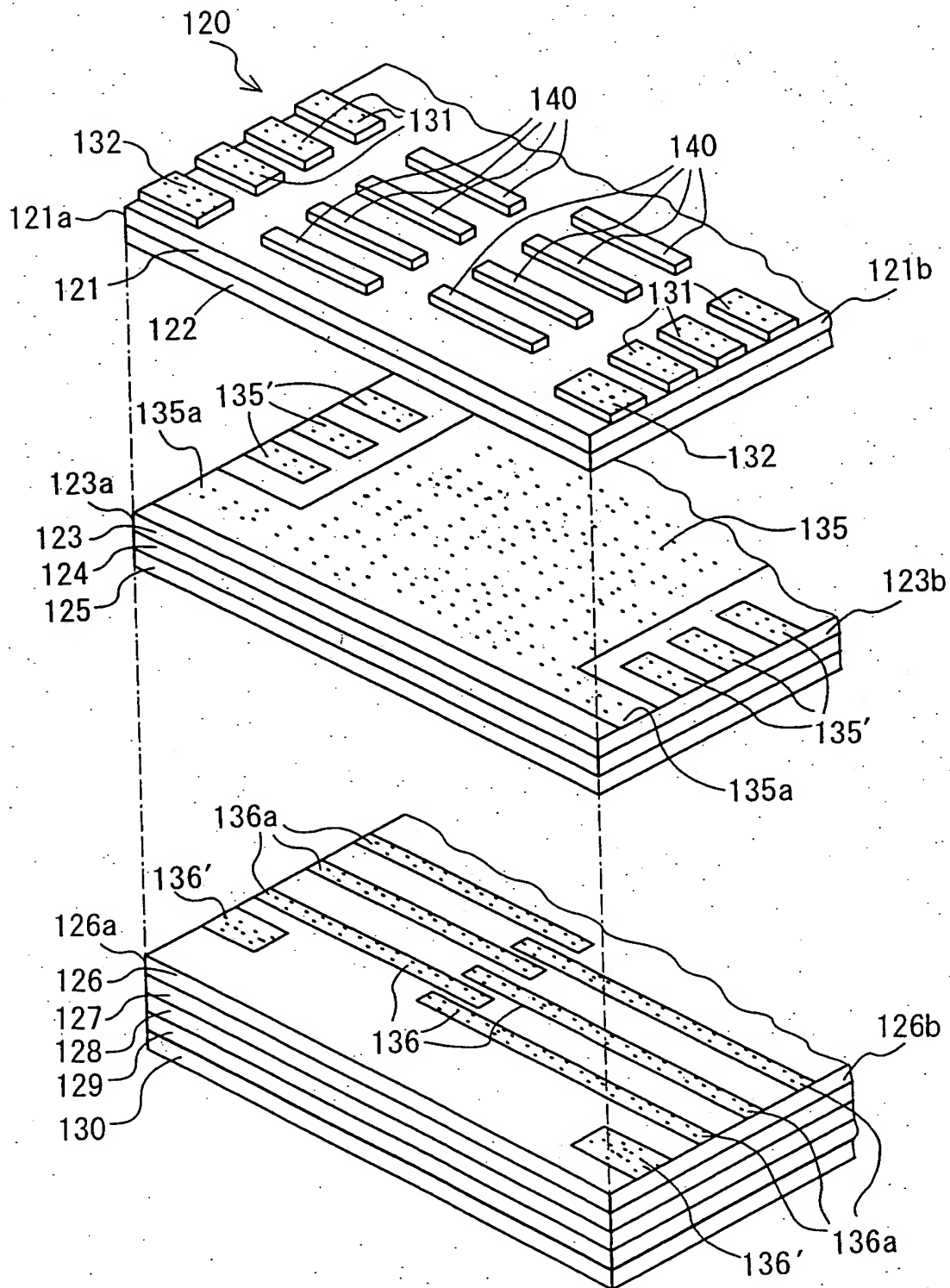


FIG.14

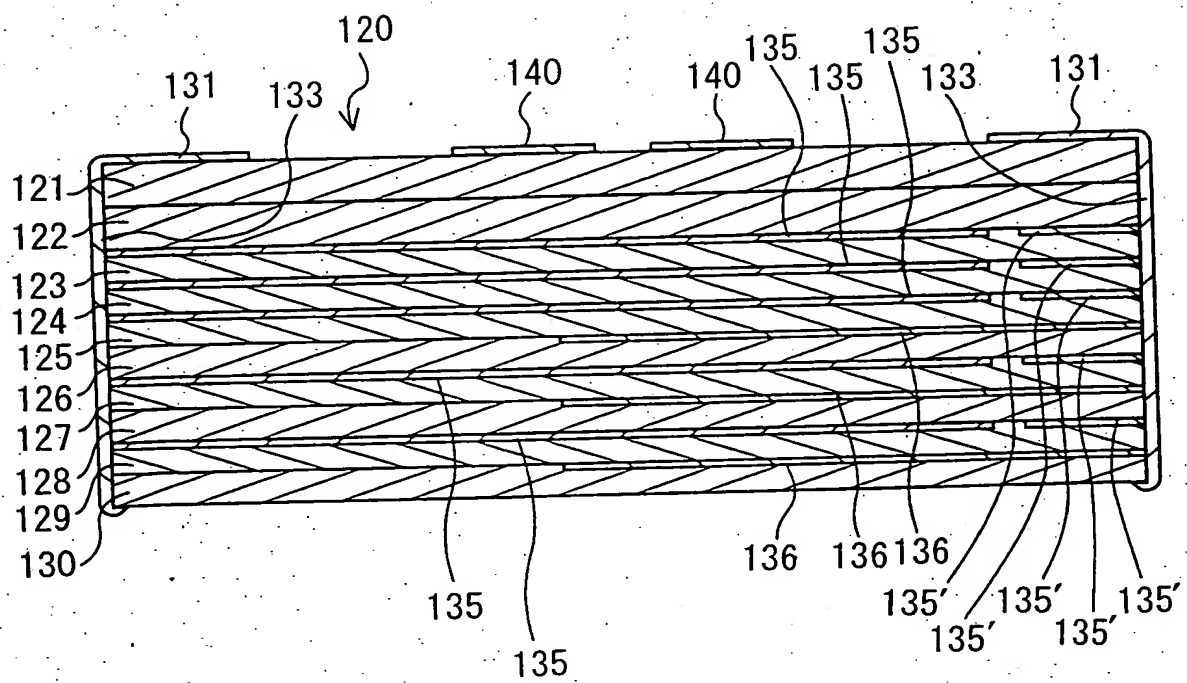


FIG.15

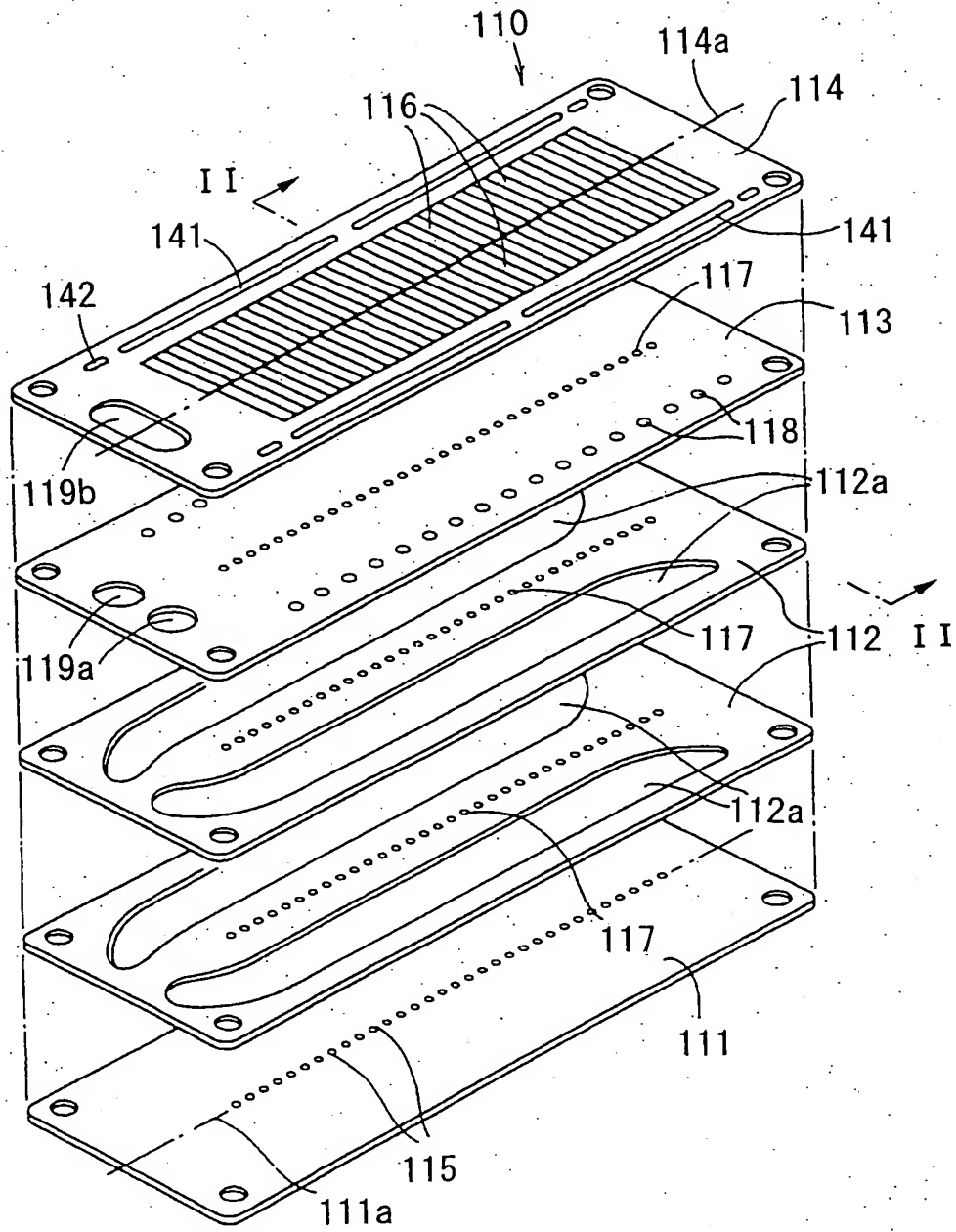


FIG.16

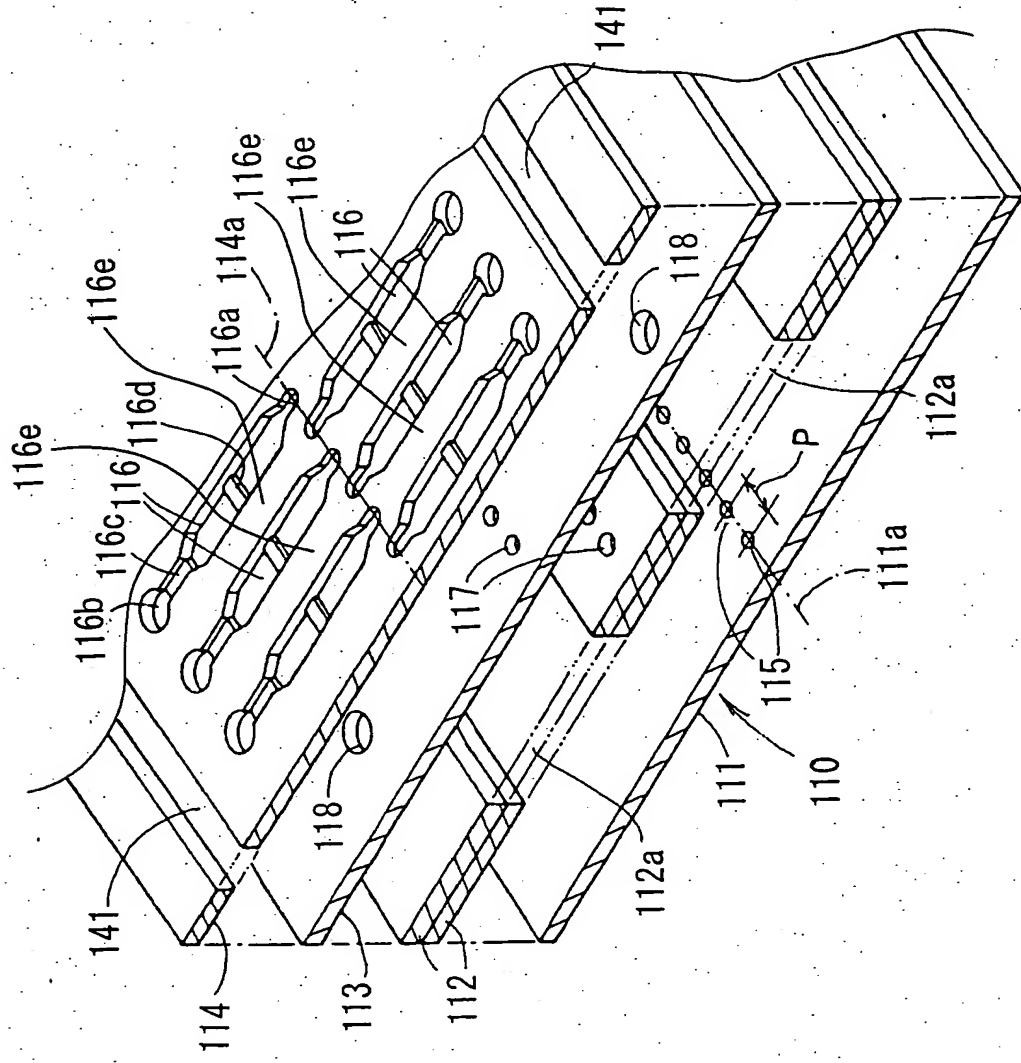




FIG.17

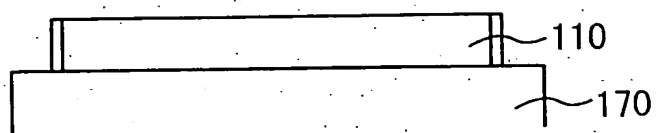


FIG.18

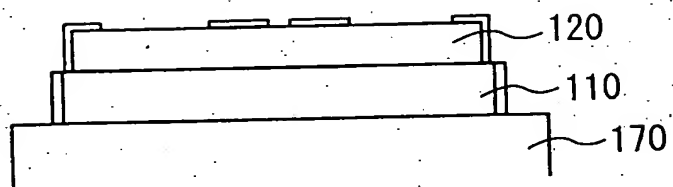


FIG.19

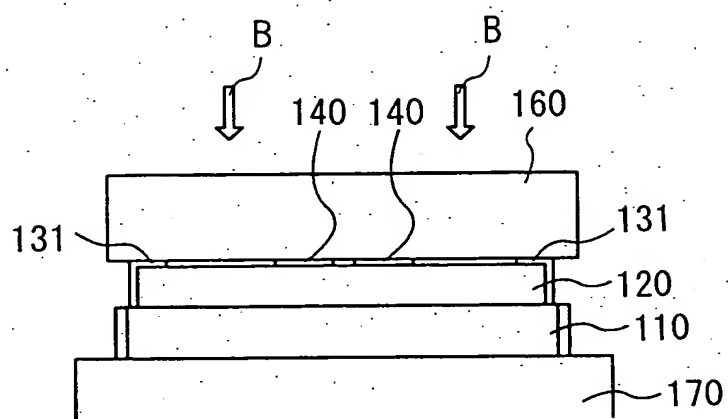


FIG. 20

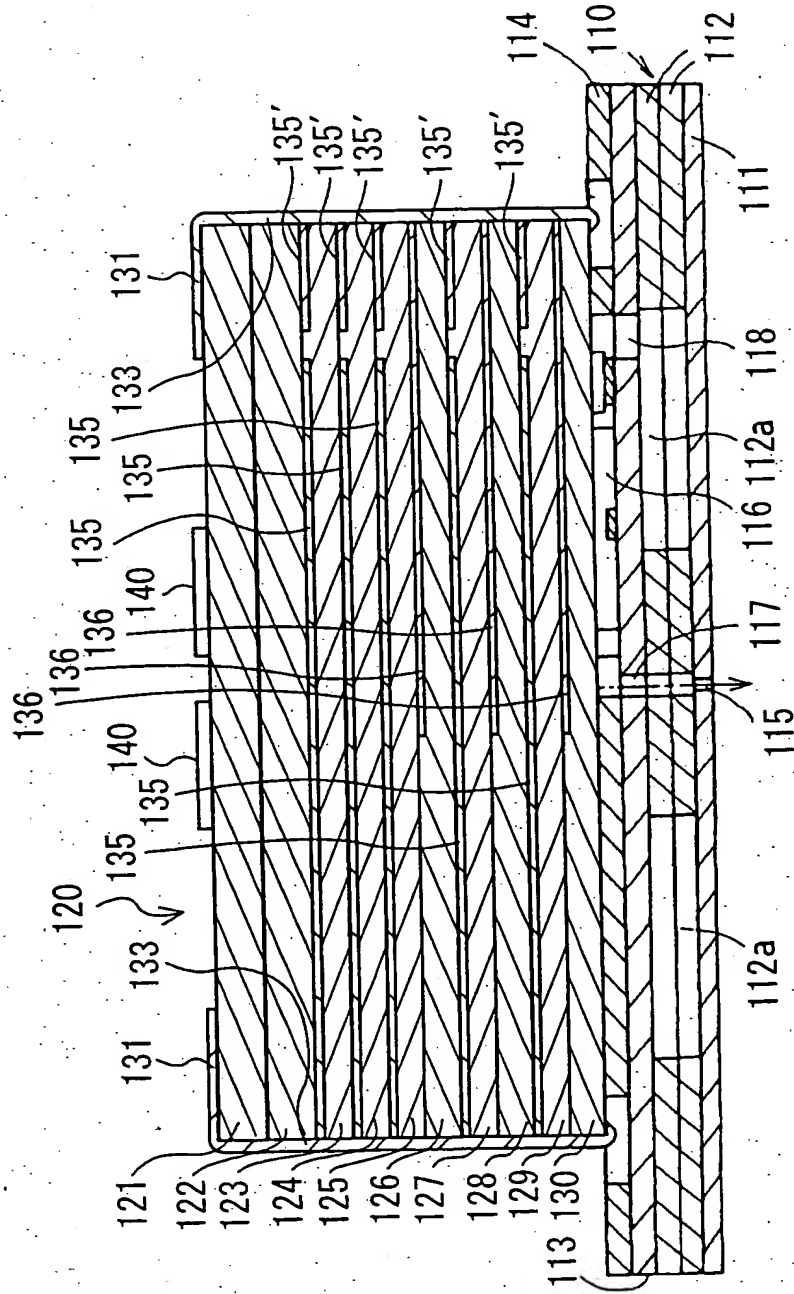


FIG.21

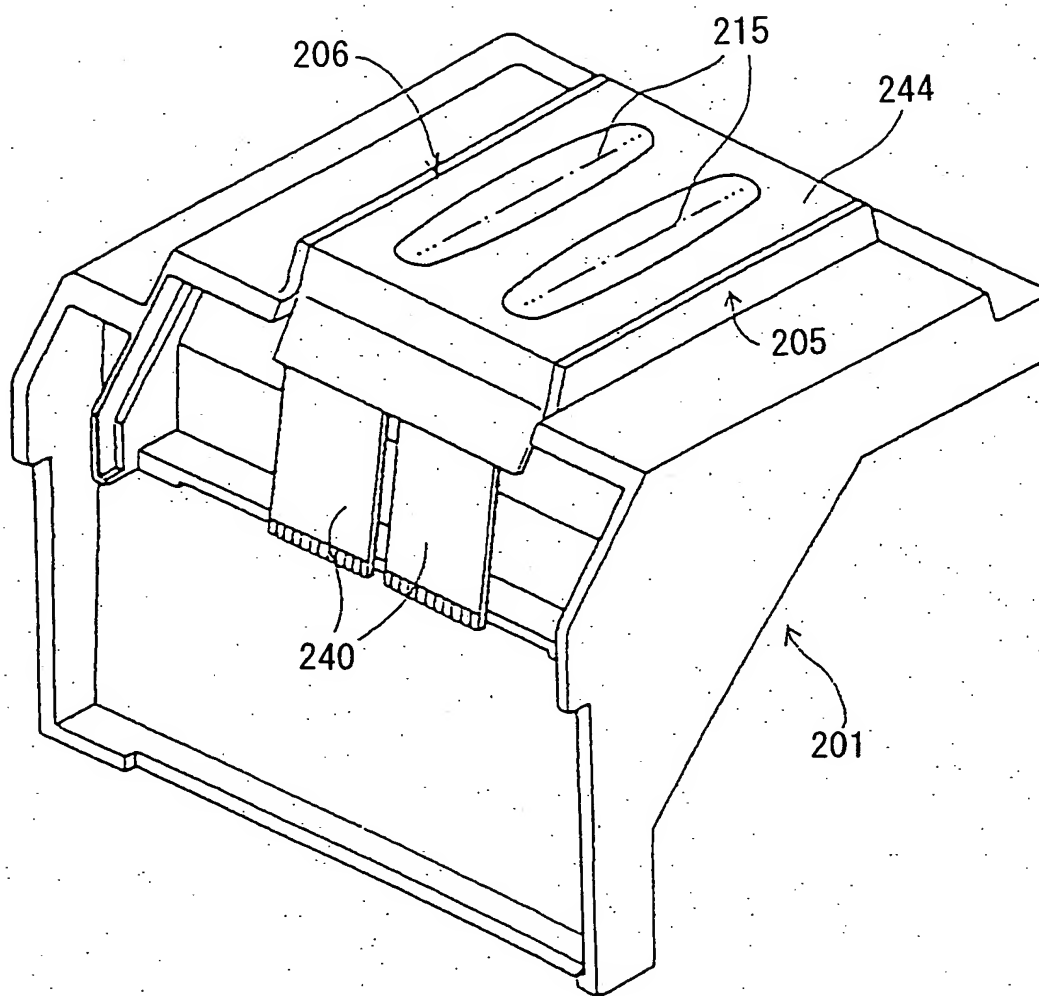


FIG.22

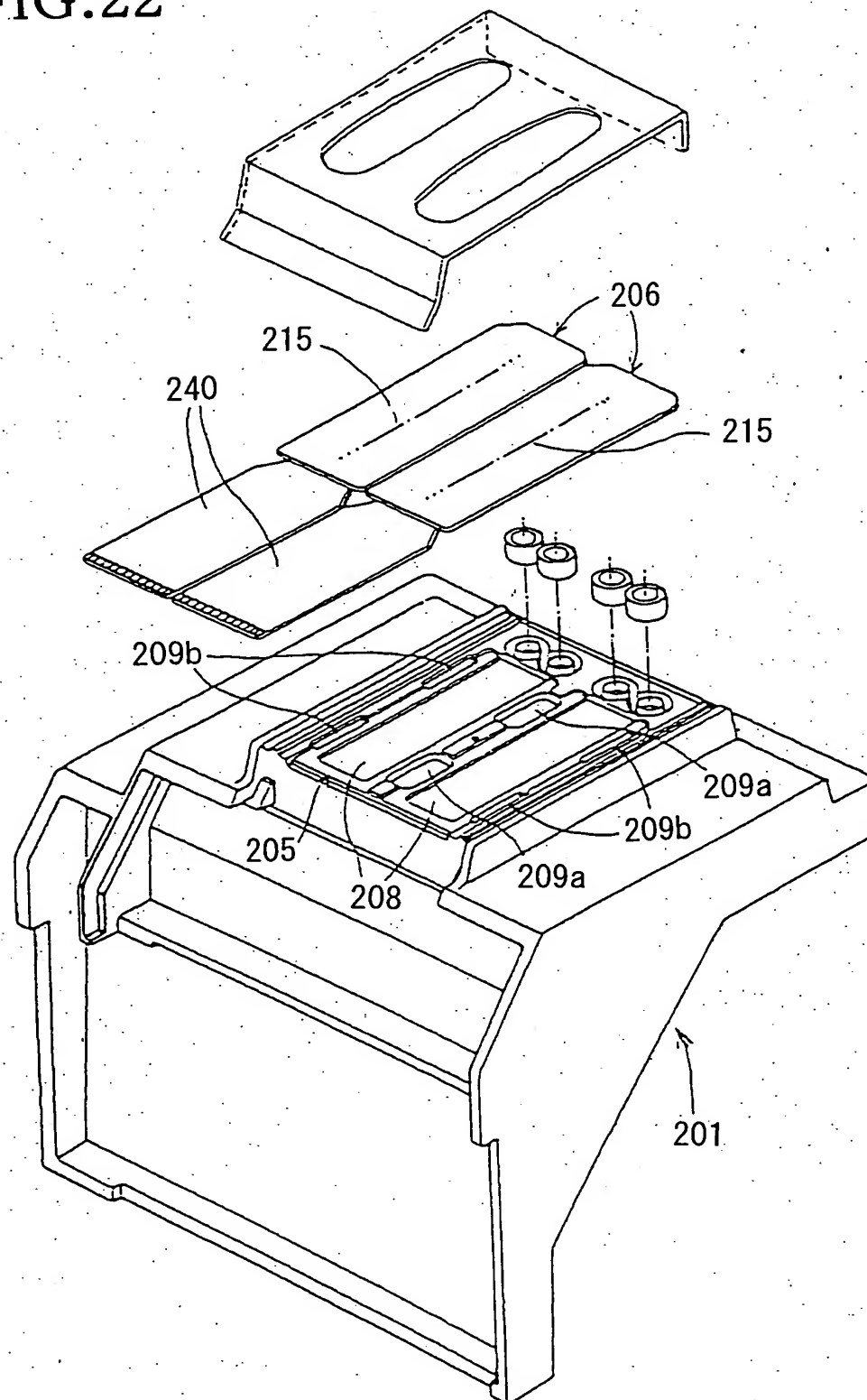


FIG.23

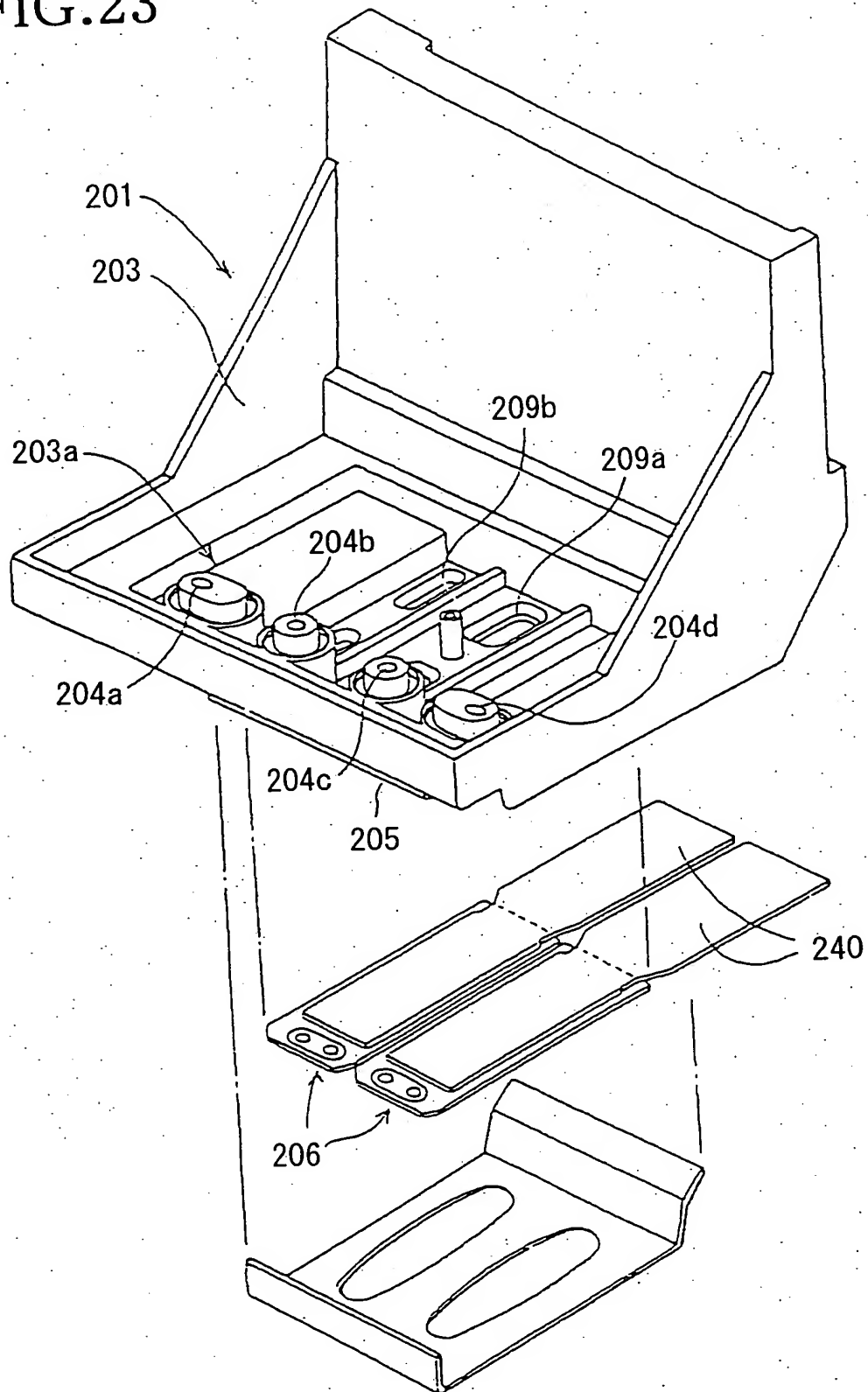


FIG.24

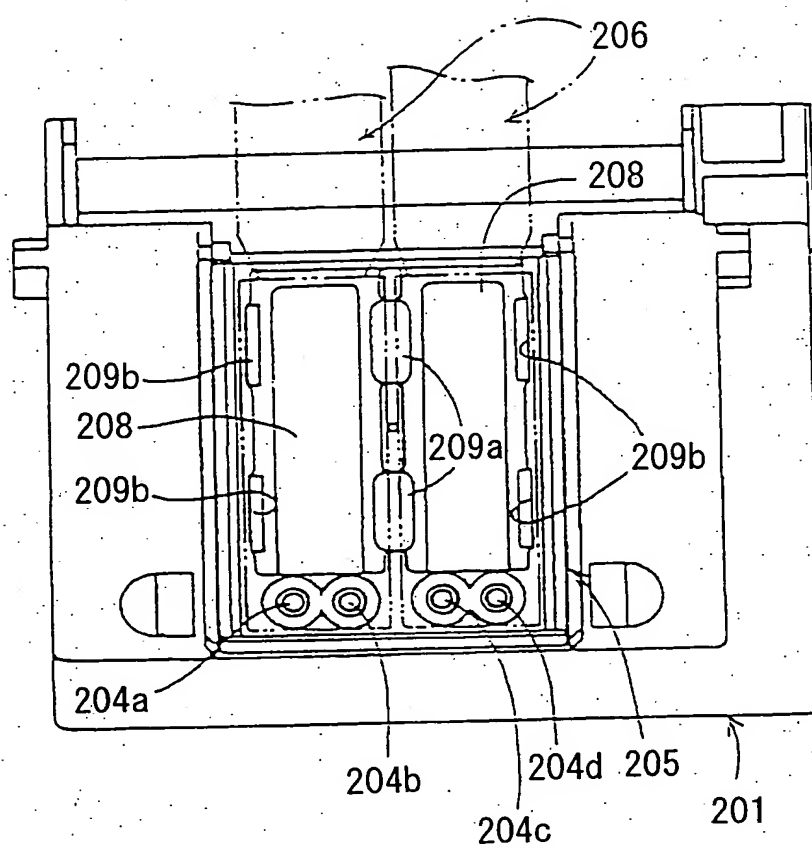




FIG.25

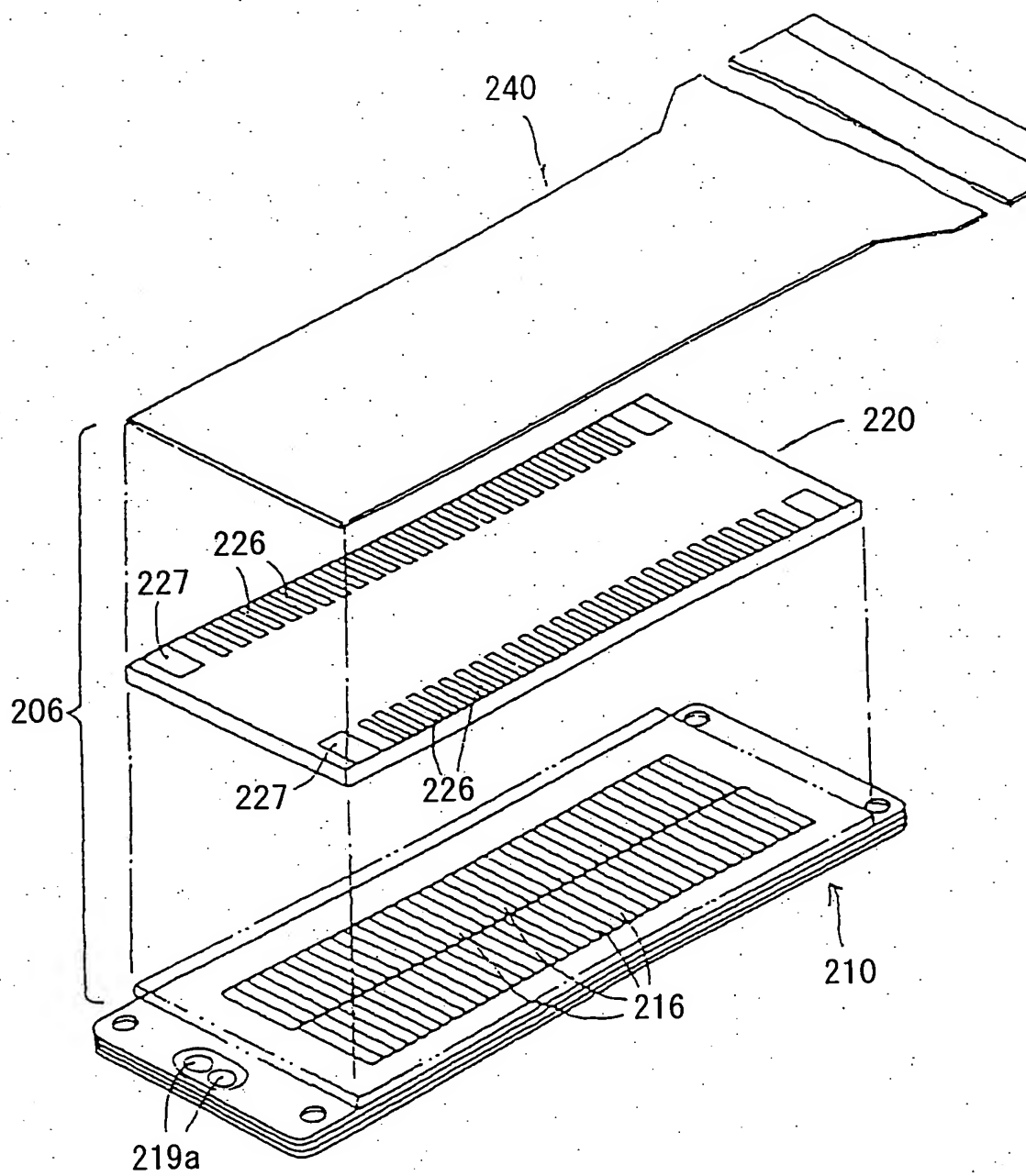


FIG. 26

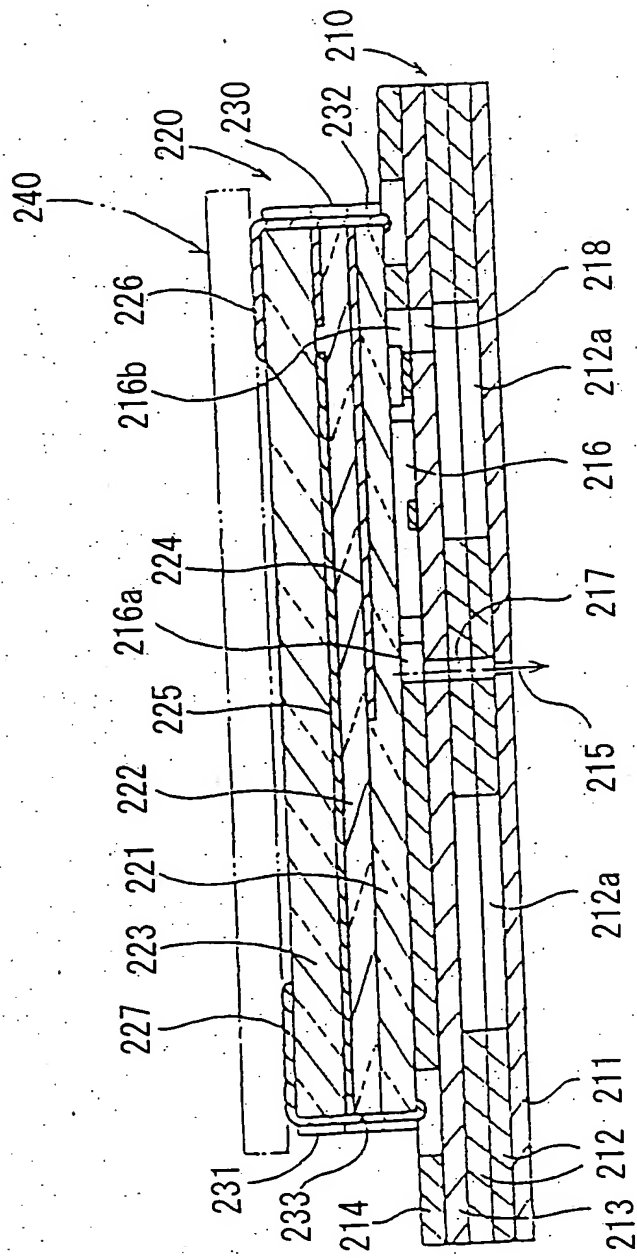


FIG.27

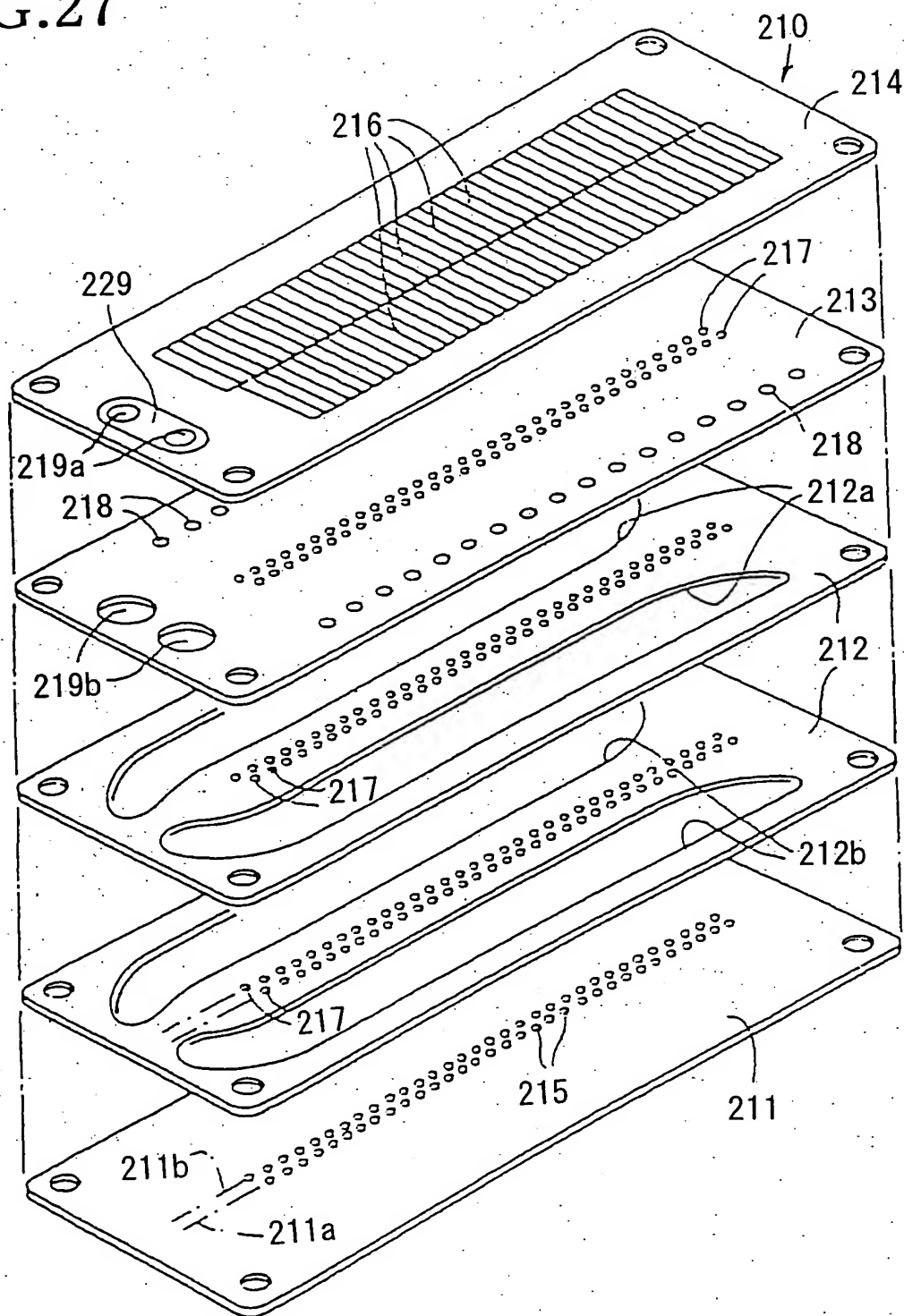


FIG.28

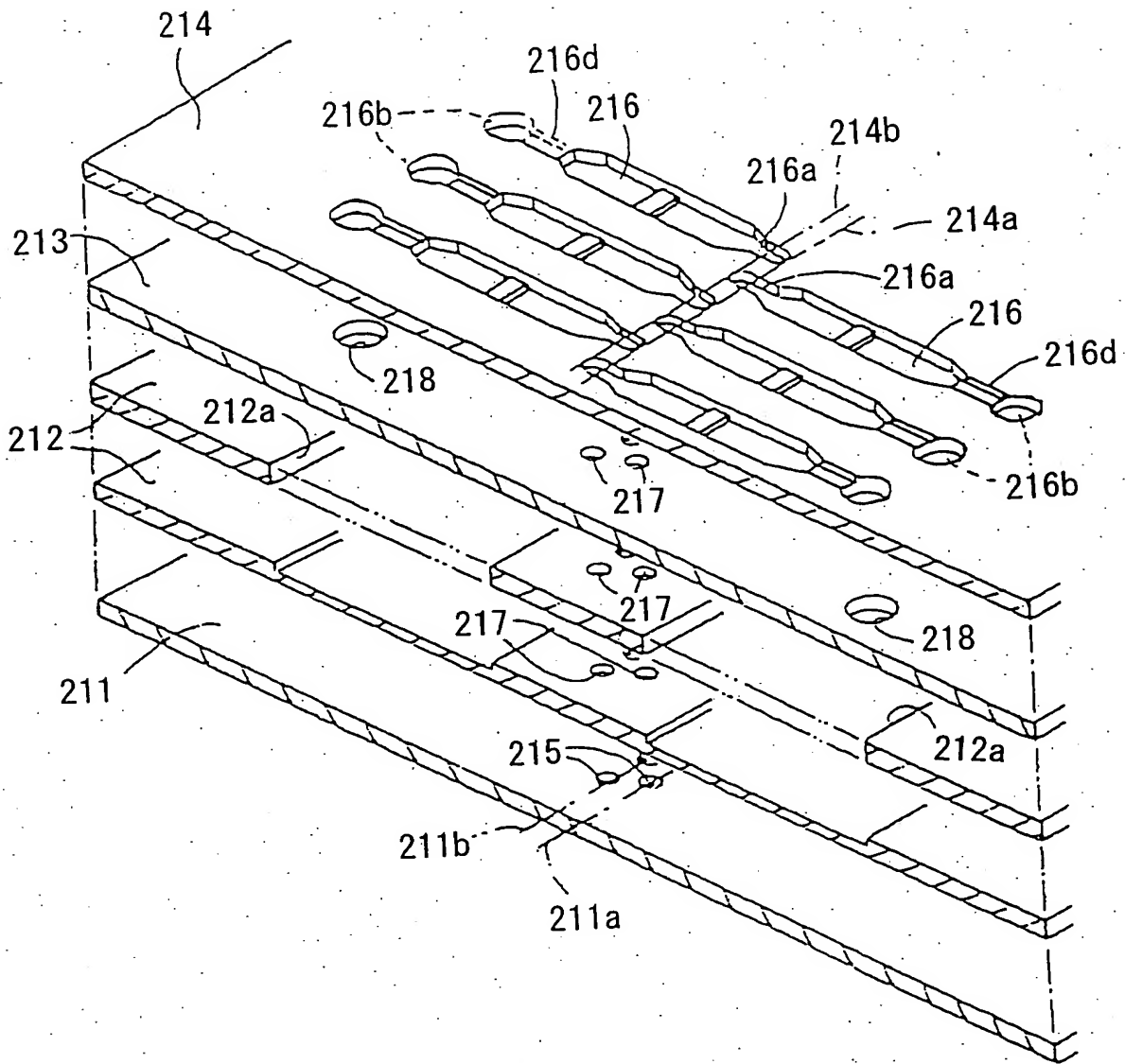


FIG. 29

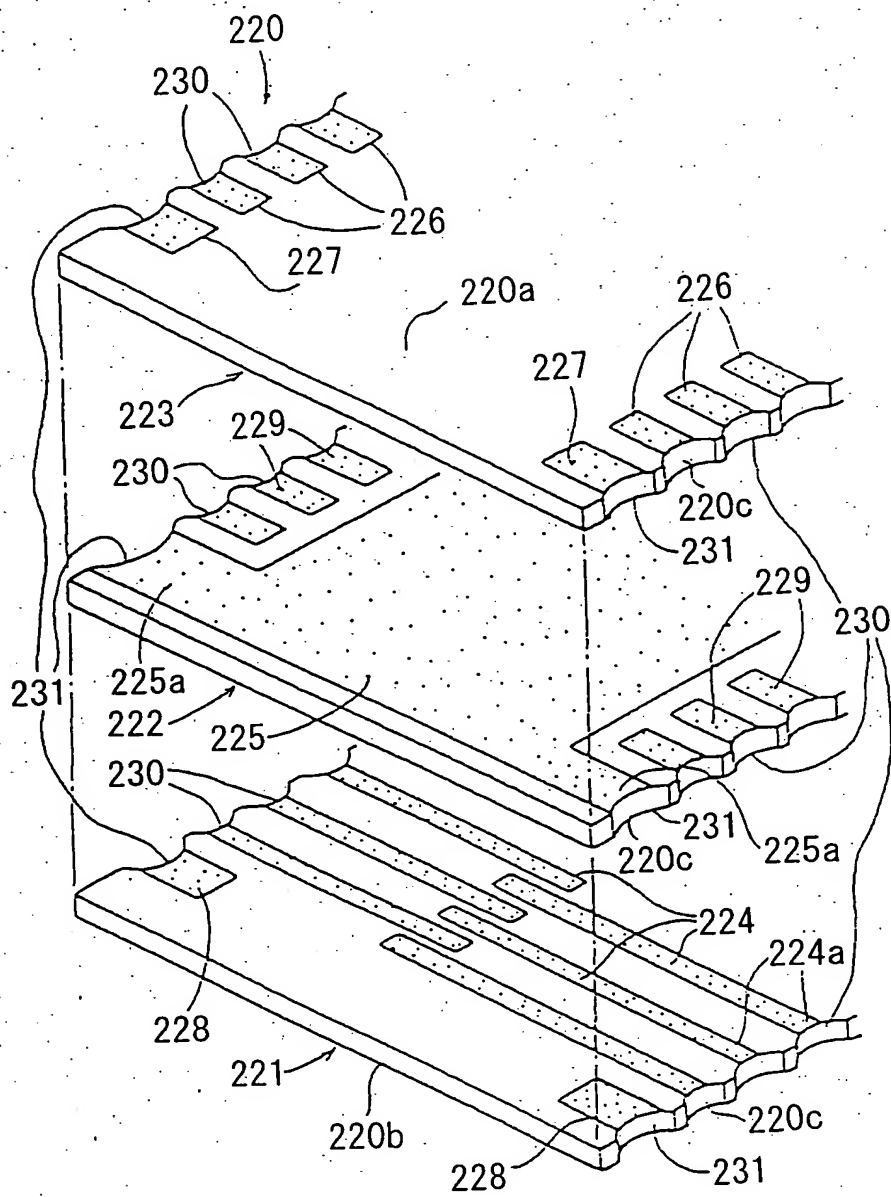


FIG.30A

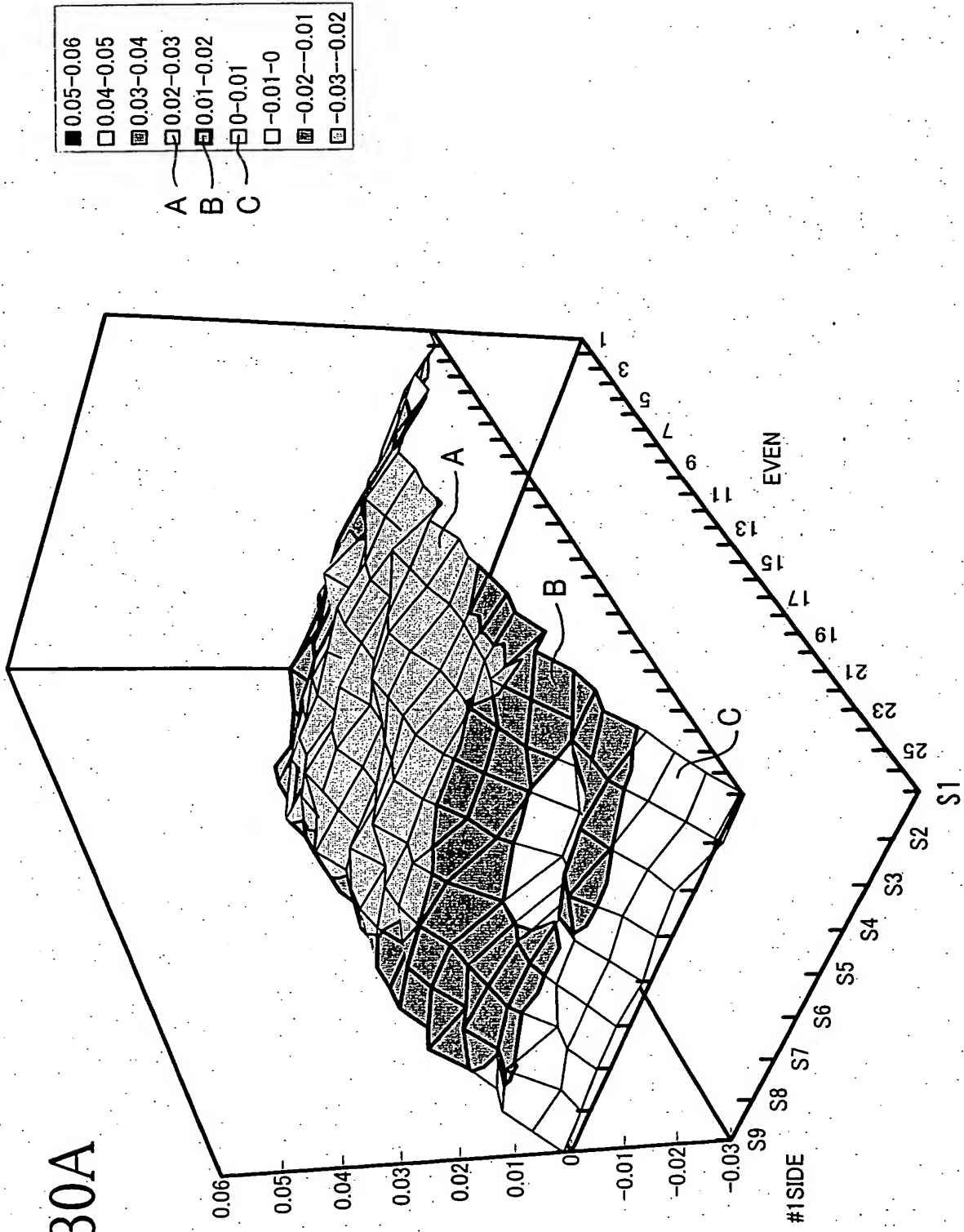


FIG. 30B

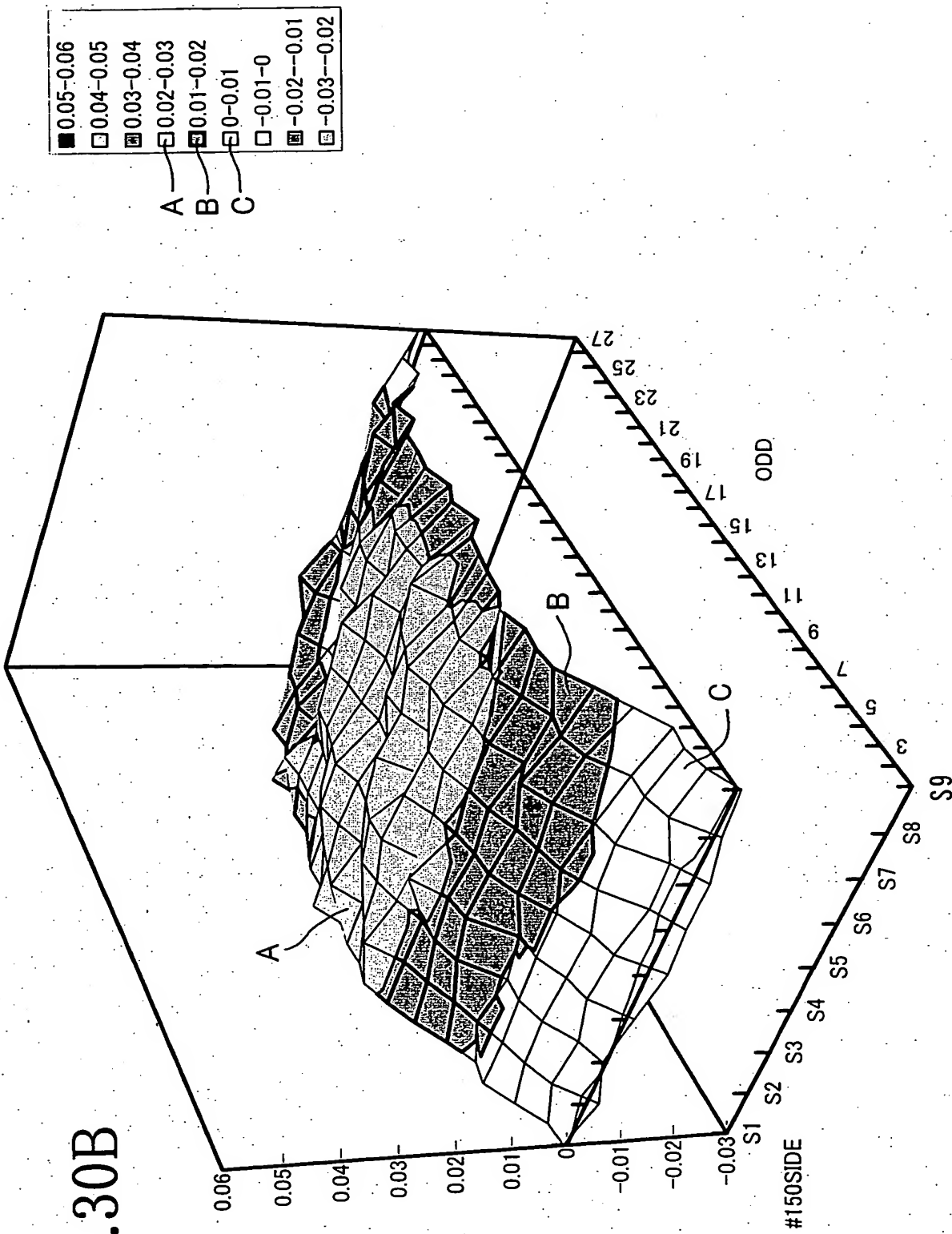


FIG.31A

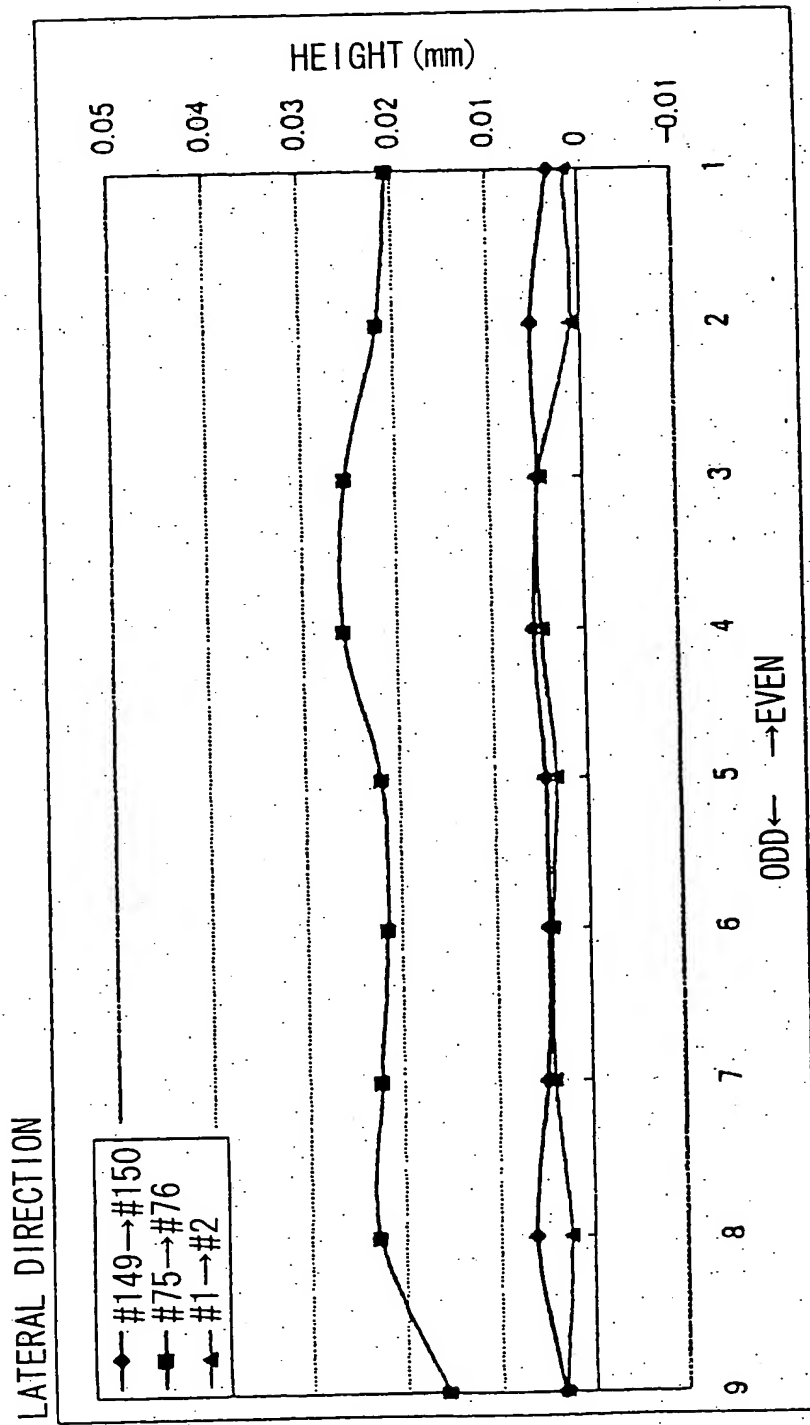




FIG.31B

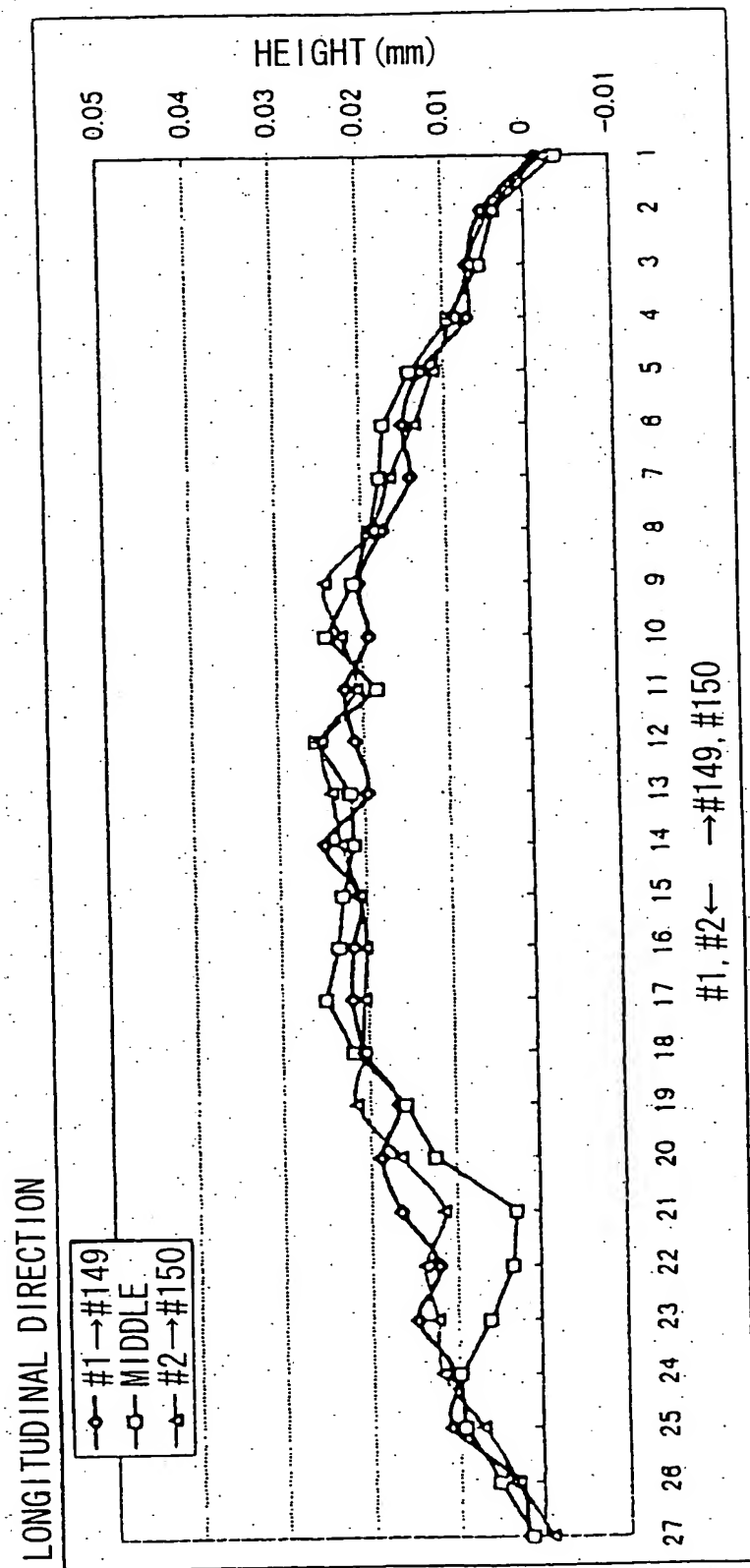
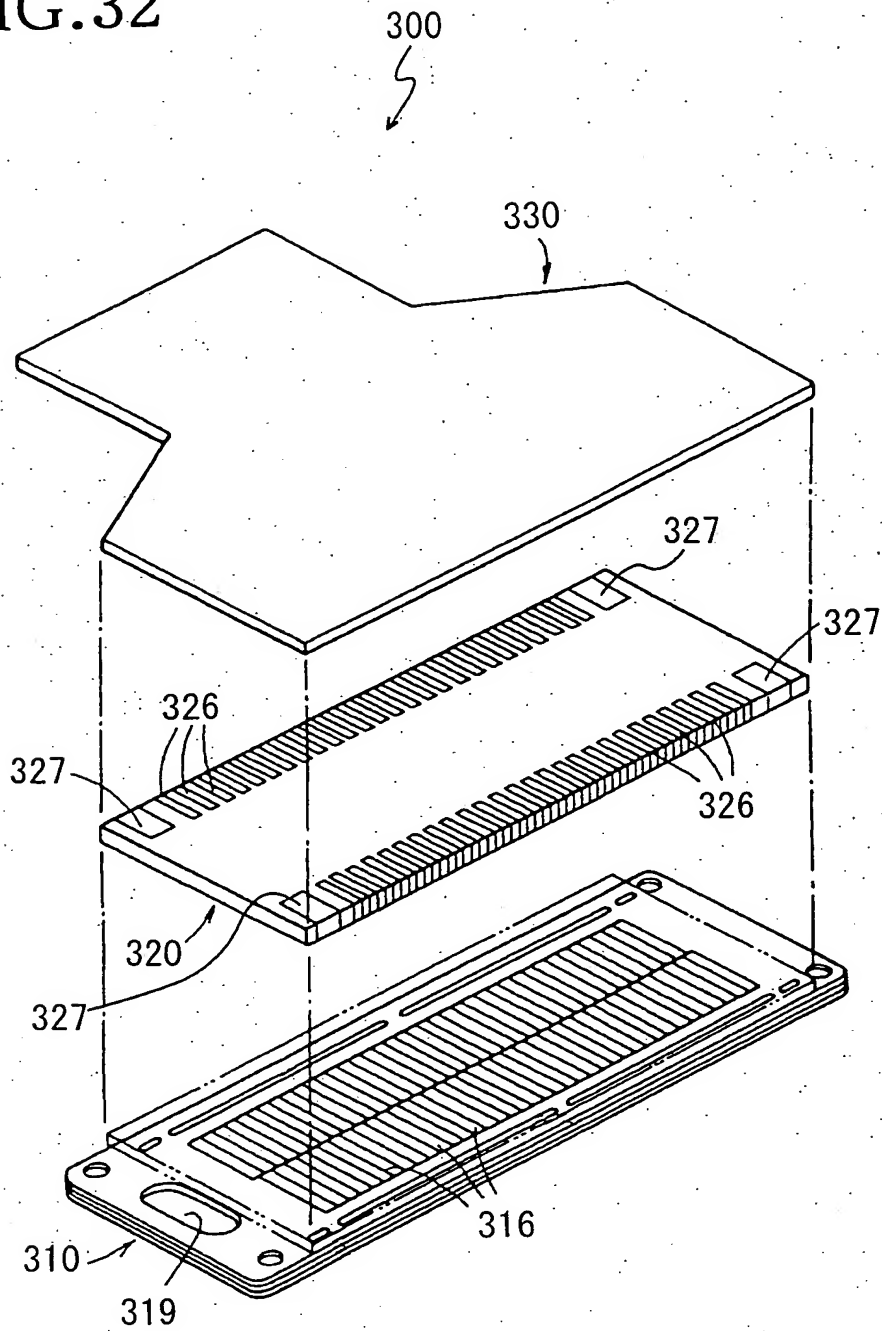
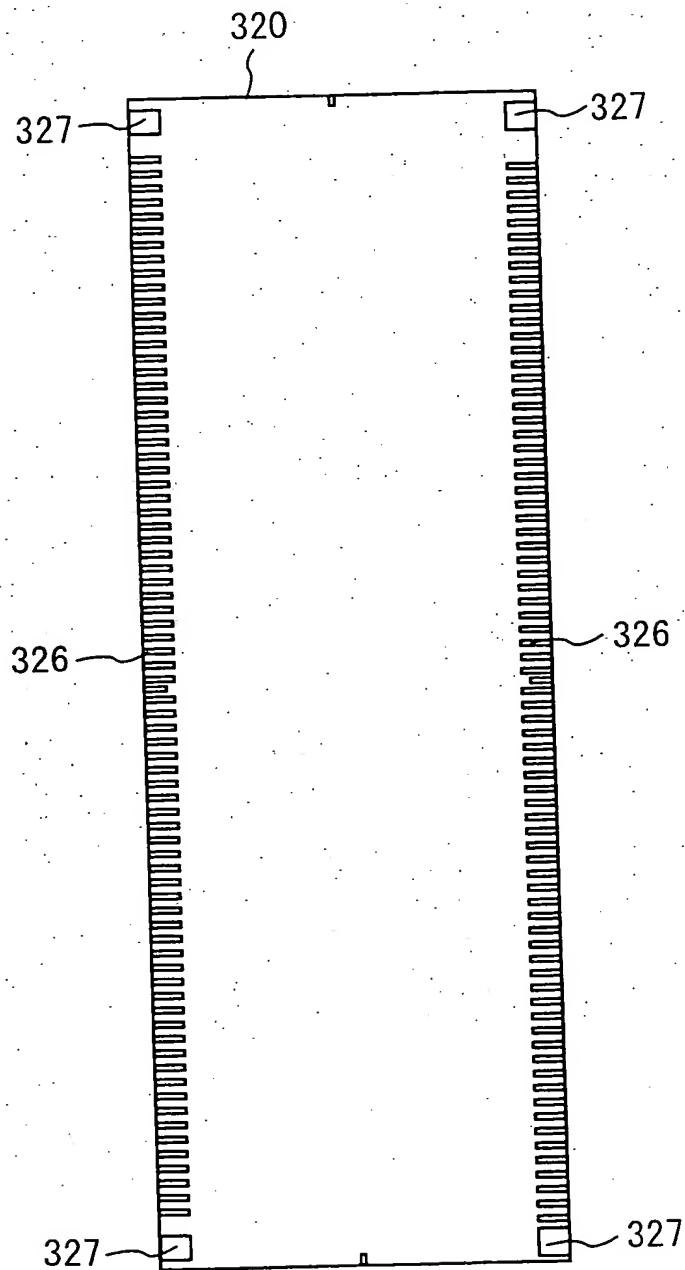


FIG.32



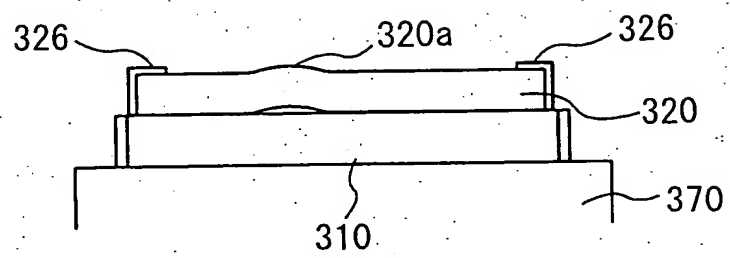
RELATED ART

FIG.33



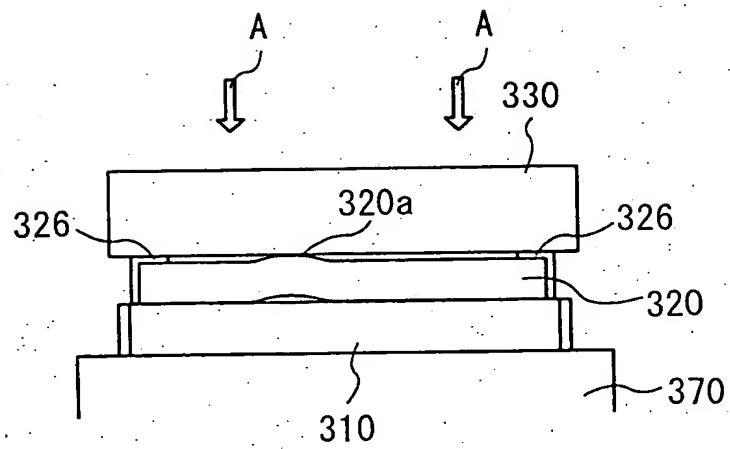
RELATED ART

FIG.34



RELATED ART

FIG.35



RELATED ART